







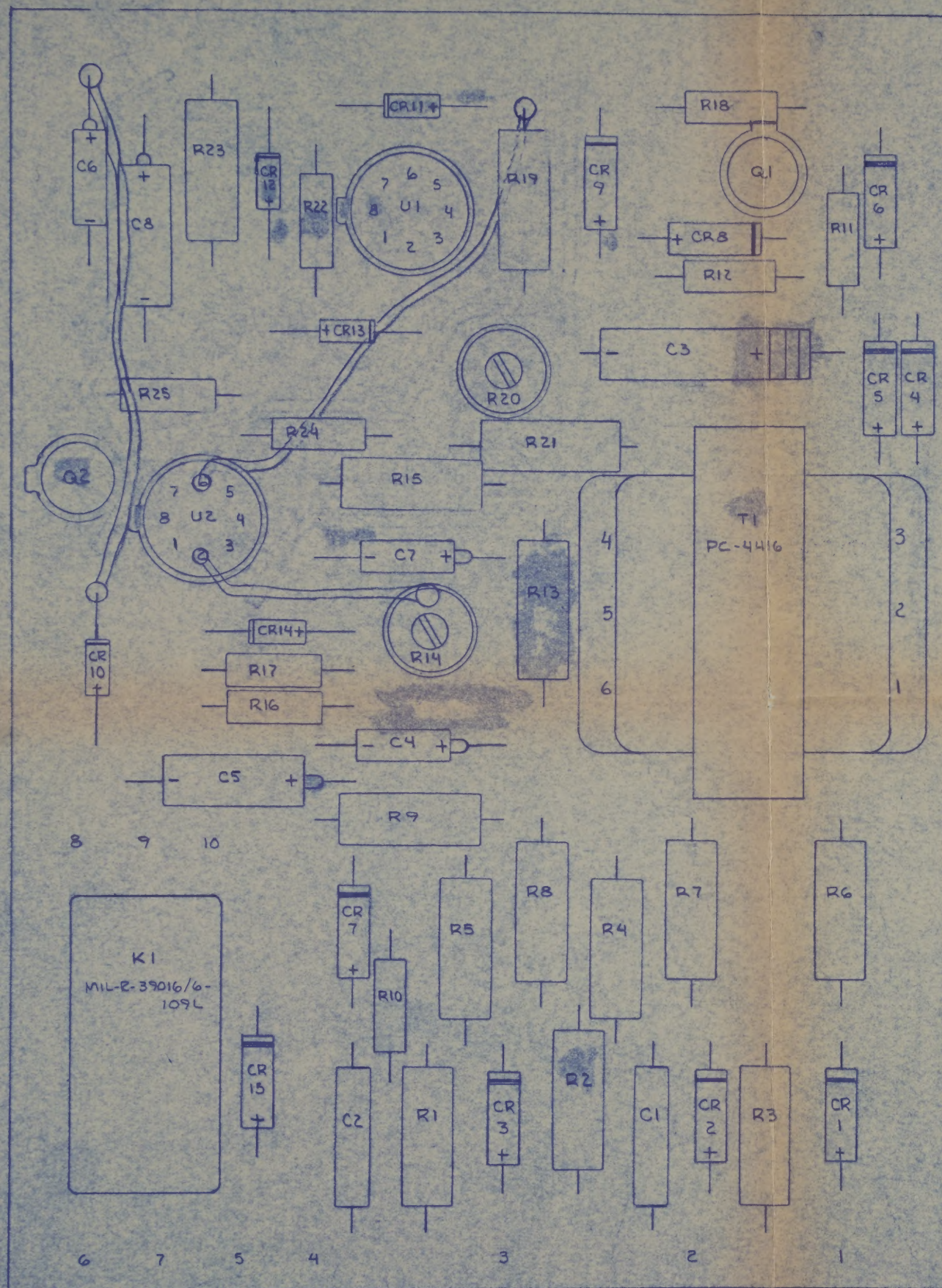
REF DES	PIN/VALUE
C1	.01UF/400V
C2	.01UF/400V
C3	30UF/50V
C4	1.8UF/20V
C5	6.8UF/35V
C6	1UF/35V
C7	2.2UF/20V
C8	6.8UF/35V
CR1	1N4005
CR2	1N4006
CR3	1N4005
CR4	1N4002
CR5	1N4002
CR6	1N4002
CR7	1N4002
CR8	1N970B
CR9	1N821A
CR10	1N4148
CR11	
CR12	
CR13	
CR14	1N4148
CR15	1N4002
Q1	2N2222A
Q2	2N2222A

U1	MC1558G
U2	MC1558G

R1	75K/RN60
R2	23.7K
R3	464K
R4	464K
R5	464K
R6	100K
R7	100K
R8	100K
R9	12.1K/RN60
R10	47K/1/4W
R11	100Ω/1/4W
R12	820Ω/1/4W
R13	5.62K/RN60
R14	5K POT
R15	8.25K/RN60
R16	10K/1/4W
R17	100K/1/4W

R18	2.7K/1/4W
R19	2.15K/RN60
R20	1K POT
R21	4.22K/RN60

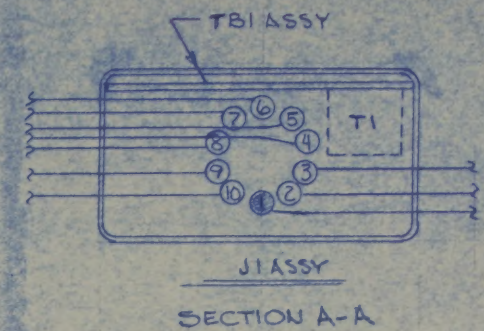
R22	1.5M/1/4W
R23	348K/RN60
R24	10K/1/4W
R25	330K/1/4W



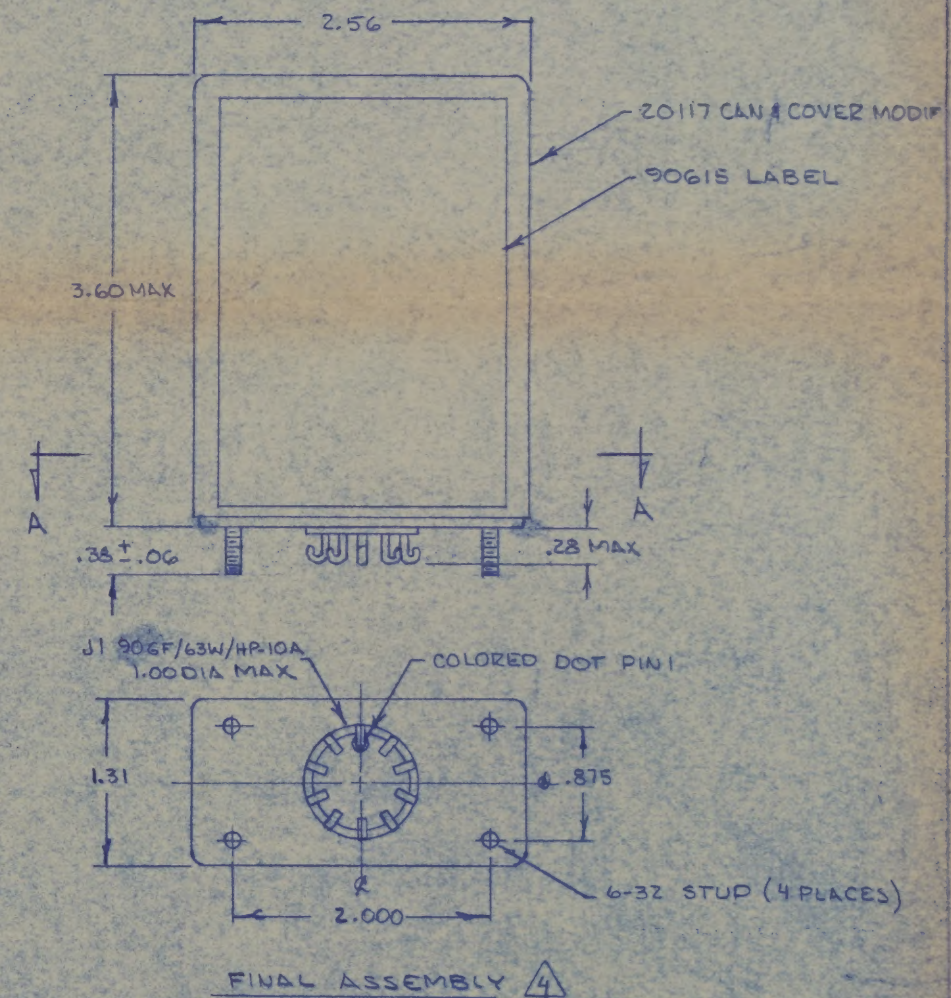
P.C. BOARD BO138A

- 4 POTTING COMPOUND: 85CM3 SILICON PER  
 3 SCHEMATIC: 101536 (REF) BS160-1  
 2 PARTS LIST: PL101535 (REF)  
 1 TOP DRAWING: 101535 (REF)  
 NOTES:

FROM	TO	COLOR	LENGTH
J1-1	TBI-1	BROWN	2.1
2	2	RED	1.5
3	3	ORANGE	1.3
4	4	YELLOW	1.4
5	5	GREEN	1.5
6	6	BLUE	1.7
7	7	VIOLET	1.3
8	8	GRAY	2.7
9	9	WHITE	2.6
J1-10	TBI-10	BLACK	2.5



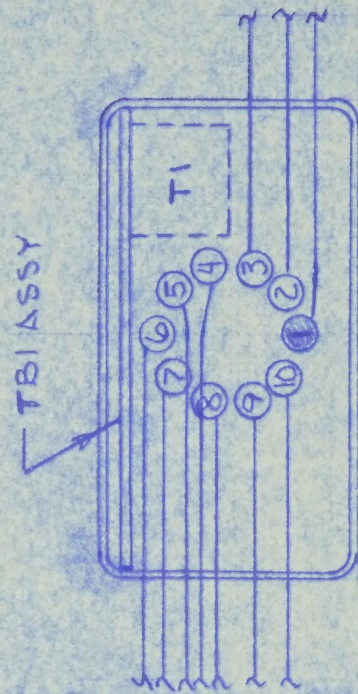
ENG. COPY



DIMENSIONS ARE IN INCHES AND AFTER PLATING	DR <i>[Signature]</i> 4-25-78	<b>Parko</b> ELECTRONICS COMPANY INC., SANTA ANA, CALIF.	
TOLERANCES (unless otherwise specified)	CHK <i>[Signature]</i> 6/6/78		
.X ±.1	DSGN	ASSEMBLY-SENSING RELAY	
.XX ±.03	PROJ	CODE IDENT NO.	SIZE
.XXX ±.010	REL <i>[Signature]</i> 5-29	13979	C 101537
ANGLES ±0.5°	APPROVED <i>[Signature]</i> 5-29	SHEET 1 OF 1	REV
MACH SURF	DO NOT SCALE DRAWING	SCALE 4:1	



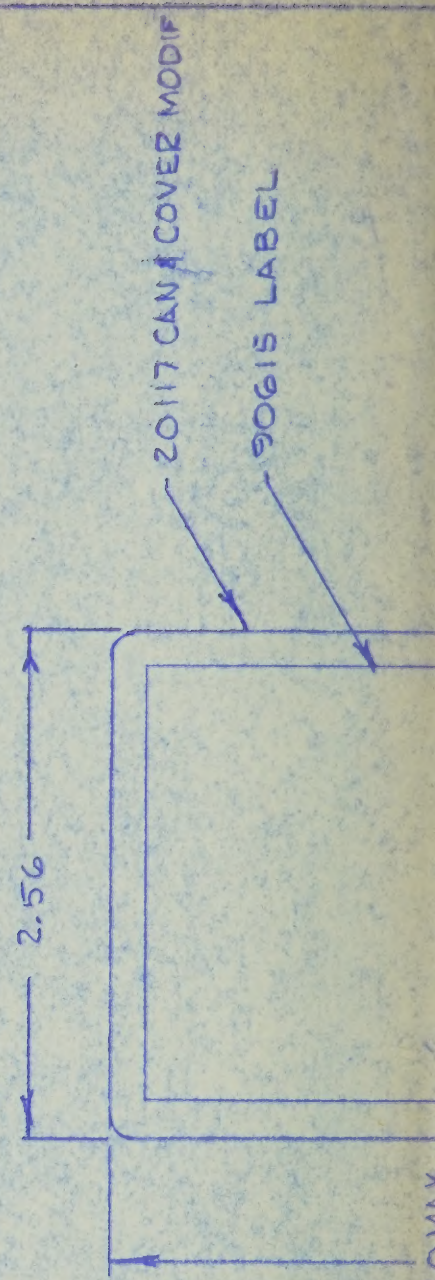
WIRE No 22 AWG STRANDED			
FROM	TO	COLOR	LENGTH
J1-1	TB1-1	BROWN	2.1
2	2	RED	1.5
3	3	ORANGE	1.3
4	4	YELLOW	1.4
5	5	GREEN	1.5
6	6	BLUE	1.7
7	7	VIOLET	1.3
8	8	GRAY	2.7
9	9	WHITE	2.6
J1-10	TB1-10	BLACK	2.5



J1 ASSY

SECTION A-A

ENG. COPY





RETURNED UNIT

AUG-19-03

VOLTAGE

OVER 138.0 - RECT 137.8

93.8

(1.8) MAX

UNDER

92.0 - "

IT IS NOW .9V

TIMING - POWER UP

1.07  
1.25 SEC

(OUT)

SHOULD BE

4 TO 1.1

25.43

33.76

EVERYTHING BECCE IS 0.4

SAV<sup>11</sup>

REFERENCE DES.			PART NUMBER	DESCRIPTION
C1		540-10M35	CAPACITOR, 10	
C2		540-4.7M10	CAPACITOR, 4.7	
C3		540-0.1M35	CAPACITOR, .1	
C4, C5		21RD739	CAPACITOR, 39	
C6		CK12BX103K	CAPACITOR, .0	
C7		540-0.47/35	CAPACITOR, .4	
R1 A & B		29SJ250-5.6K	RESISTOR, 5.6	
R3 A & B				
R2 A & B		29SJ250-3.9K	RESISTOR 3.9K	
R5		266-10K	RESISTOR NETW	
R6, R8		ME299-10K	RESISTOR, 10K	
R7		ME299-4.7M	RESISTOR, 4.7	
R9		ME299-1.5M	RESISTOR, 1.5	
R10, R11, R12		268-680 OHM	RES. NETWORK	
F1		322010	FUSE 3AB-10AM	
		345611	FUSE HOLDER	
		1/2" X 1.5"	HEAT SHRINK	

	115VAC	RES	HIGH TRIP	REF
C4	9.32	6.45	11.18	6.42
C7	5.35	5.01	6.41	

$$\frac{92}{1.18} = 77.96610169491525$$

---

	BAD	RES
C4	6.88	6.94
	3.88	5.724
C7	3.84	

# PINPOINT MEDIA

138.0 - 137.8 - (.2)  
- (1.8)

Q2.0 - Q3.8

1.25 sec

or 29.49 ms

PN - 38.57 ms



JULY 13-77

MICROTRAN

PC-4416

DC RESISTANCE

$$1-2 = 159 \Omega$$

$$3-4 = 19.6 \Omega$$

$$5-6 = 16.6 \Omega$$

AC VOLTS 1K LOAD

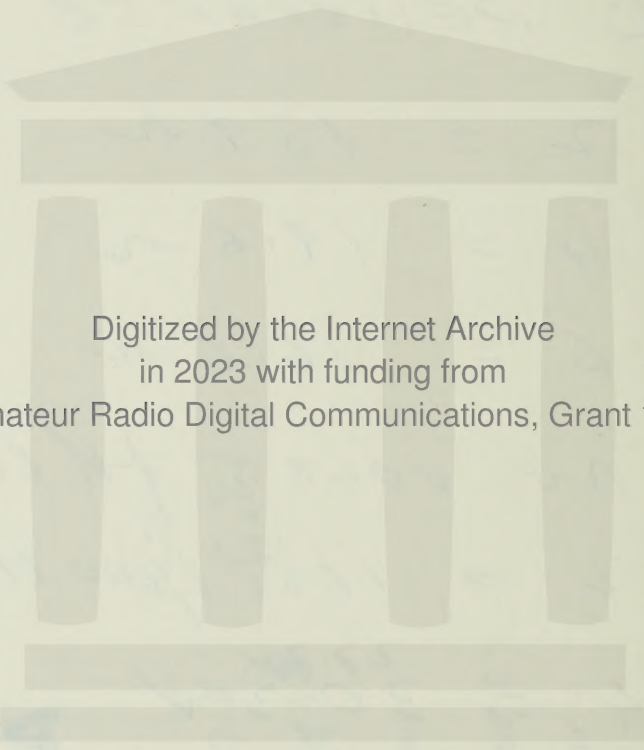
$$1-2 = 115 / 400 \text{ Hz}$$

$$3-4 = 30.3 \checkmark$$

$$5-6 = 30.3 \checkmark$$

1  
3.8  
3





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110 MICRO . 072  
PARKO . .078)

PARKO - COND . 180

MICRO . 212

150 OPE MICRO - 184

PARKO . 247





PRIMA  
1700T / #38 1ST

141 ~

SEE

3-4 - 19.9 ~

5-6 - 21.6 ~

32  
139 ~

425T / #34

3-4 - 19.9 ~

5-6 - 21.4 ~





THE WORLD'S LARGEST LOCAL INVENTORY FROM HAMILTON

ARNOLD

CORE EE-24-25

BOBIN

AMERICAN MOLDED

PRODUCTS

#6440

.024 .006"



FROM



HAMILTON  
ELECTRO SALES

From Los Angeles

**213 558-2121**

Customer Service

**213 558-2131**

From Valley/Santa Barbara/Riverside

**213 558-2323**

From Orange County

**714 522-8200**





OUTSIDE VIEW



1-2-3-4-5-6-7-8-9-10





7C 4015

602

NO 2140

100V

115V

90V - 27.60V - 3.77mA - 20.42V - 10.1mA  
115V - 35.40V - 5.57mA - 22.81V - 14.2mA  
140V - 43.06V - 12.47mA - 31.60V - 21.2mA

TW-15-1516 (1)

90V - 29.46 - .50mA - 17.21V - 7.62mA  
115V - 37.73 - .72mA - 23.44V - 9.74mA  
140V - 45.40 - 3.30mA - 28.78V - 12.03mA

TW-15-1516 (1)

90 - 29.10V - .77mA - 17.86V - 7.70mA  
115 - 37.25V - 1.33mA - 23.10V - 9.77mA  
140 - 45.38V - 3.58mA - 28.35V - 12.22mA

TW-15-1516 (1+2)

90 - 29.30V - 1.31mA - 14.39V - 7.62mA  
115 - 37.48V - 2.31mA - 25.00V - 11.92mA  
140 - 45.53V - 7.11mA - 30.52V - 18.17mA

101 535

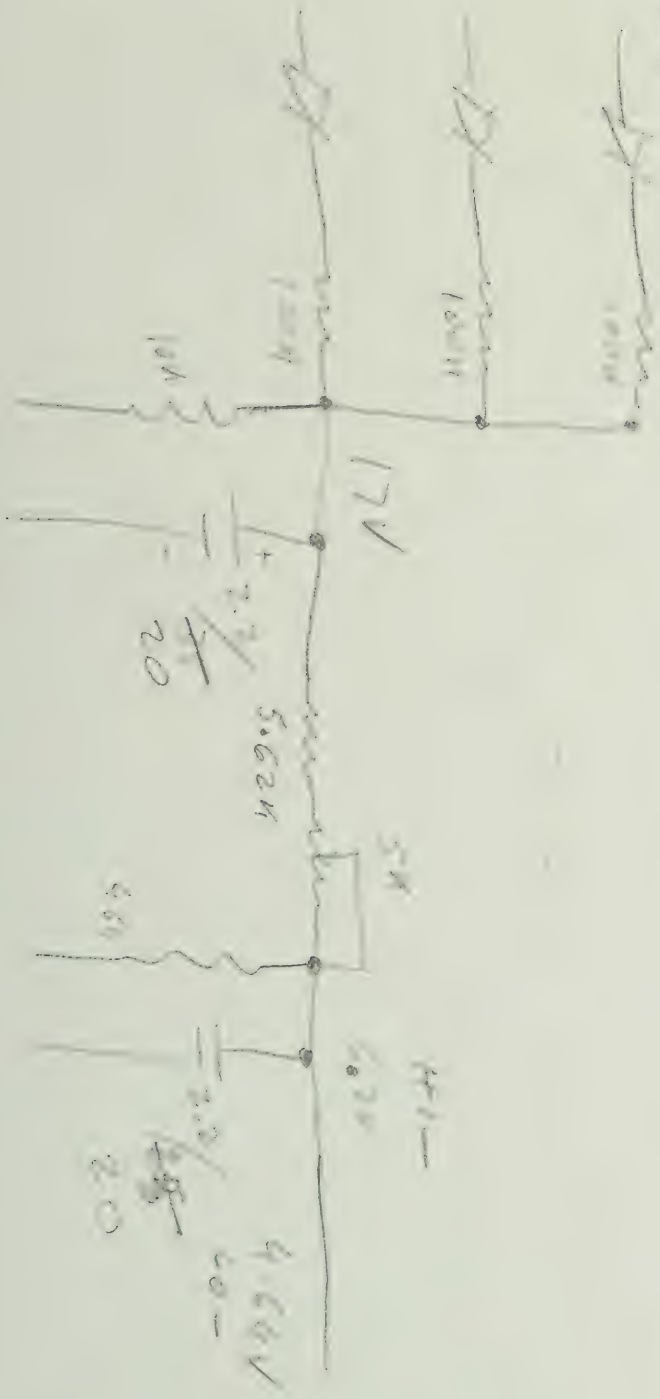
POSSIBLE SOLUTION TO 240

SUBSTITUTION





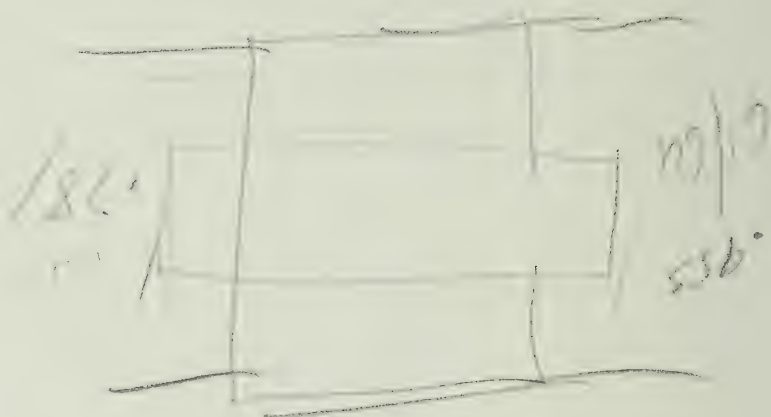
1080 cm/s = 1080 Hz











27/32  
180°

11/64  
180°

PC 4416



10/5/5

RECALL 2000.00 1000.00 1000.00

RECALL WITH DIOXIDE

TURN ON = 2.5 ms

TURN OFF = 4.5 ms

RECALL 2000.00 1000.00 1000.00

TURN ON = 2.5 ms

TURN OFF = 2.5 ms WITH 100 V & PULSE

USE BEST PERFORMANCE AND POWER







GREEN MCCLELLAN

ASSY- PROCESSING WORK.

101535

ANY ESD SENSITIVE

PARTS INSIDE ?



Blue 2.1

Red 1.55

Orange 1.3

Yellow 1.1

22 Aug

Green 1.75

~~1.7~~

1.53

2.8

~~2.8~~ 6

White 2.35

See next.

95.8

1.48

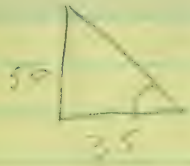
1.15

1.55

2.73

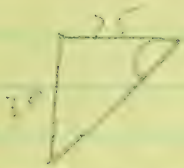


$$\bar{I}_a = \sqrt{35^2 + 50^2} = \sqrt{3725} = 61 \text{ A}$$



$$\tan \theta = \frac{50}{35} = 1.43 \quad \theta = 50.0^\circ$$

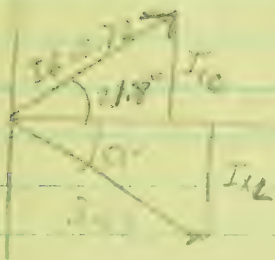
$$\bar{I}_b = \sqrt{75^2 + 30^2} = \sqrt{6225 + 900} = \sqrt{7125} = 84.4$$



$$\tan \theta = \frac{30}{75} = .40 \quad \theta = 21.8^\circ$$

$$\bar{I}_a = \frac{220}{61} = 3.61 \text{ A}$$

$$\bar{I}_b = \frac{220}{84.4} = 2.62 \text{ A}$$



$$\cos 28.2^\circ = \frac{I_{aL}}{I_a} = .928 = \frac{I_{aL}}{3.61} \quad I_{aL} = 3.61 \times .928 = 3.35$$

$$\cos 28.2^\circ = \frac{I_{bL}}{I_b} = .928 = \frac{I_{bL}}{2.62} \quad I_{bL} = 2.62 \times .928 = 2.43$$

$$\cos 28.2^\circ = \frac{I_{aL}}{I_a} = .928 = \frac{I_{aL}}{3.61} \quad I_{aL} = 3.61 \times .928 = 3.35$$

$$\cos 28.2^\circ = \frac{I_{bL}}{I_b} = .928 = \frac{I_{bL}}{2.62} \quad I_{bL} = 2.62 \times .928 = 2.43$$

$$\bar{I}_c = \sqrt{(3.35 - 2.43)^2 + (1.01 - 2.95)^2} = \sqrt{(0.92)^2 + (-1.94)^2}$$

$$\sqrt{0.8464 + 3.7636} = \sqrt{4.61} = 2.15$$



## Customer Training

School \_\_\_\_\_  
Date \_\_\_\_\_

[illegible]

Signed \_\_\_\_\_





182

$$\frac{x(x^2 - 2x + 2) - (x^2 - 2x + 2)}{x^2 - 2x + 2}$$

$$\frac{x^2 + 2}{x^2 - 2x + 2} = \frac{x^2 + \frac{1}{x}}{x^2 - 2x + 2} = \frac{1}{x}$$

$$\frac{x(x^2 + 2) - (x^2 + 2)}{x^2 - 2x + 2} = \frac{x^2 + 2}{x^2 - 2x + 2}$$

$$x(x^2 + 2) - (x^2 + 2) = 0$$

$$x^3 + 2x - x^2 - 2 = 0$$

$$x^3 - x^2 + 2x - 2 = 0$$

$$x^2(x - 1) + 2(x - 1) = 0$$

$$(x^2 + 2)(x - 1) = 0$$

$$P(A|B) = \frac{P(A \cap B)}{P(B)} = \frac{P(A \cap B)}{P(A \cap B) + P(B \cap A^c)}$$

$$= \frac{P(A \cap B)}{P(A \cap B) + P(B \cap A^c)}$$

$$= \frac{P(A \cap B)}{P(A \cap B) + P(B \cap A^c)}$$

1/3

$$\frac{P(A \cap B)}{P(A \cap B) + P(B \cap A^c)}$$

$$P(A \cap B) = P(A) \cdot P(B|A)$$

P

$$P(A \cap B) = P(A) \cdot P(B|A)$$

$$P(A \cap B) = P(A) \cdot P(B|A)$$

$$P(A \cap B) = P(A) \cdot P(B|A)$$

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$$P(A \cap B) = P(A) \cdot P(B|A)$$

$$P(A \cap B) = P(A) \cdot P(B|A)$$

(10)

$$= 2 \quad \bar{r}_{L, C} = \frac{(8 - \frac{1}{2})}{\sqrt{2}}$$

$$\sqrt{2} \cdot 20 = -100 - 50$$

$$\sqrt{2} \cdot 200 + 100 = 500$$

$$\frac{40}{\sqrt{2}} = \frac{50 + 100 + 200}{\sqrt{2}}$$

$$20 \quad 200$$

$$200 + 100 + 200 = 500$$

$$200 - 100 = 100$$

$$200 - 100 = 100$$

$$200 - 100 = 100$$

$$200 - 100 = 100$$

$$Q_2 = \frac{2}{\sqrt{2}} = \frac{20 + 100}{100 - 100 + 100}$$

$$\frac{2}{\sqrt{2}} (100 - 100 + 100) = 200 - 100 = 100$$

$$100 - 100 + 100 = 100$$

$$100 - 100 = 0$$

$$100 - 100 + 100 = 100$$

$$100 - 100 + 100 = 100$$

$$100 - 100 + 100 = 100$$



$$37) P = \frac{m}{d^2 - L^2} - \frac{m}{d^2 - L^2} \quad \angle \phi = d^2 - L^2 =$$

$$P = \frac{m(d^2 - L^2)}{d^2 - L^2} = \frac{m(d^2 - L^2)}{d^2 - L^2}$$

$$P = \frac{m(d^2 - L^2)}{d^2 - L^2} = \frac{m(d^2 - L^2)}{d^2 - L^2}$$

$$P = \frac{m(d^2 - L^2)}{d^2 - L^2} = \frac{m(d^2 - L^2)}{d^2 - L^2}$$

$$\frac{1}{P} = \frac{1}{P} + \frac{1}{P} \quad \frac{1}{P} = \frac{1}{P} + \frac{1}{P}$$

$$\frac{P - F}{FP} = \frac{1}{F} \quad \text{DIVIDE BY ONE} \quad \frac{P - F}{FP} = \frac{1}{F} = \frac{FP}{FP} = F$$

$$\frac{1}{F} = \frac{1}{F} + \frac{1}{F} = \frac{1}{F} + \frac{1}{F} = \frac{1}{F} + \frac{1}{F}$$

$$C. \text{ mixed} = 16XY + 3X^2 - 7XY + 25XY = 8XY$$

$$\text{SOLVENT} = -21XY + 3XY = -24XY$$

$$3. \text{ ALKYLITY: } -6X^2 \cdot 2X^2 \cdot 5X^2 = -60X^3$$

$$5. \text{ SOLVENT} = -\{7 - [4 + (2 - X)]\} = 7 - X$$







1

Exercises 24-3, all

Exercise 24-3, 1 and 2

Exercise 25-1, 1 to 10

Exercises 25-2, 2, 3, 9, and 11

Exercise 26-1, 1 and 2

Problems 26-2, 1 and 2

Exercise 26-3, 1 to 5

Exercise 27-1, all

Exercise 27-2, 1 to 10

Exercise 27-3, 1 to 15

Problems 28-1, odd

Problems 28-2, odd

Problems 28-3, odd

Problems 28-4, odd

$\chi^2$

$\chi^2$

$\chi^2$

$$D = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

$$D = 1 - \chi^2$$

$$\chi^2 = 1 - D$$

$$D = 1 - \chi^2$$

$$D = 1 - \chi^2$$

$$D = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

$$D = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

$$D = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

$$D = \frac{1}{2} \left( \frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

~~9.10.11~~  
~~11.11~~

$$NE = RT + \frac{NIT}{M}$$

$$NE - RT = NIT$$

$$MNE = MRE + NIT$$

$$MNE = I(MR + NT)$$

$$MNE = (RT + NIT) \cdot I$$

$$MNE = RT \cdot I + NIT \cdot I$$

$$I = \frac{MNE \cdot \left( \frac{1}{RT+NT} \right)}{1}$$

$$\frac{MNE}{RT+NT} = \frac{RT}{RT+NT} + \frac{NIT}{RT+NT}$$

$$1 + \frac{8}{3} = \frac{11}{3}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$(1 + \frac{8}{3} + a \cdot \frac{8}{3}) =$$

$$1 + a \cdot \frac{8}{3}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

$$\frac{1}{1 + \frac{8}{3}} = \frac{3}{11}$$

## ELECTRONICS TECHNICIAN

Learning Object

Geometry, Trigonometric Functions,  
and Plane Vectors.

Materials: Cooke's Mathematics, and Principles of Radio--Henney.

Introduction: This study will provide a foundation for an understanding of AC circuits. Familiarity with this type of mathematics can come only with practice. If this is the first time you have encountered it, work additional problems rather than only those assigned.

Assignments: Study pages 135 to 161, chapter 7 in Henney, and pages 234 to 306, chapters 27 to 30 in Cooke's Math.

Test: Turn in work for the following problems in Cooke's Math:

- ✓Exercise 22-1, 1 to 8
- ✓Exercise 22-2, 1 to 5
- ✓Exercise 22-3, all
- ✓Exercise 22-4, 1 to 5
  
- ✓Exercise 23-1, 1 to 6
- ✓Exercise 23-2, all

















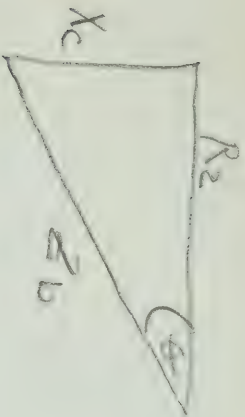
Handwritten text:  $11111111$



Handwritten text:  $11111111$



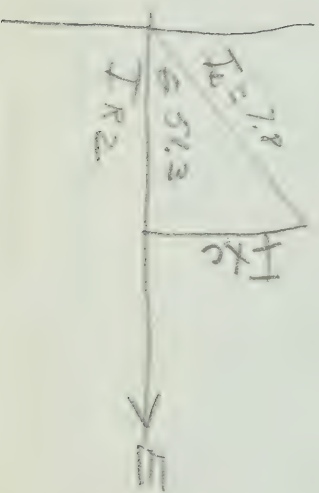
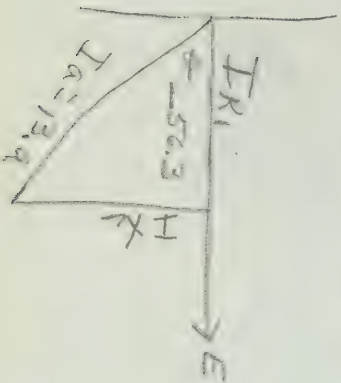
$$Z_b = \sqrt{(x)^2 + (10)^2} = 12.8 \Omega \quad \checkmark$$



$$\theta_{\text{Zb}}^{-1} = \frac{X_c}{R_2} = \frac{10}{8} = 1.25 = -51.3^\circ \quad \checkmark$$

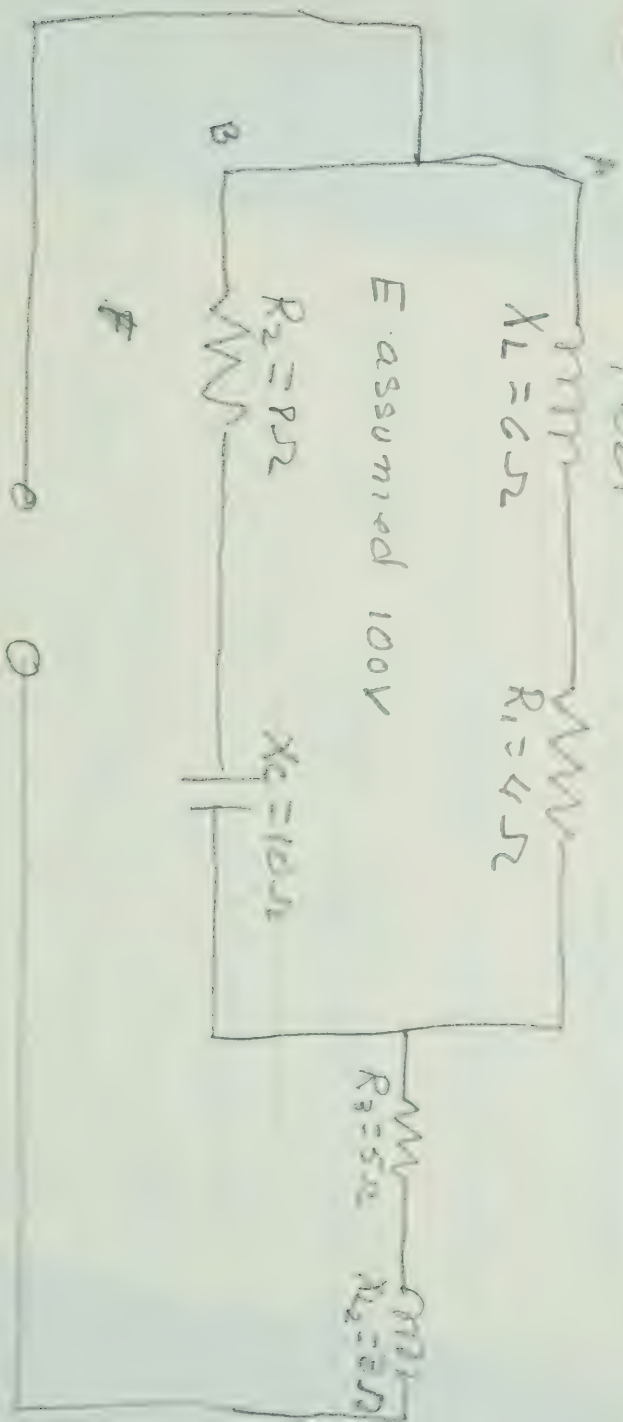
$$I_a = \frac{E}{Z_a} = \frac{100}{7.2} = 13.9 \text{ a} \quad \checkmark \quad \text{lag } E \text{ by } \theta$$

$$I_b = \frac{E}{Z_b} = \frac{100}{12.8} = 7.8 \text{ a} \quad \checkmark \quad \text{lead } E \text{ by } \theta$$



$$\frac{12}{12}$$

Test



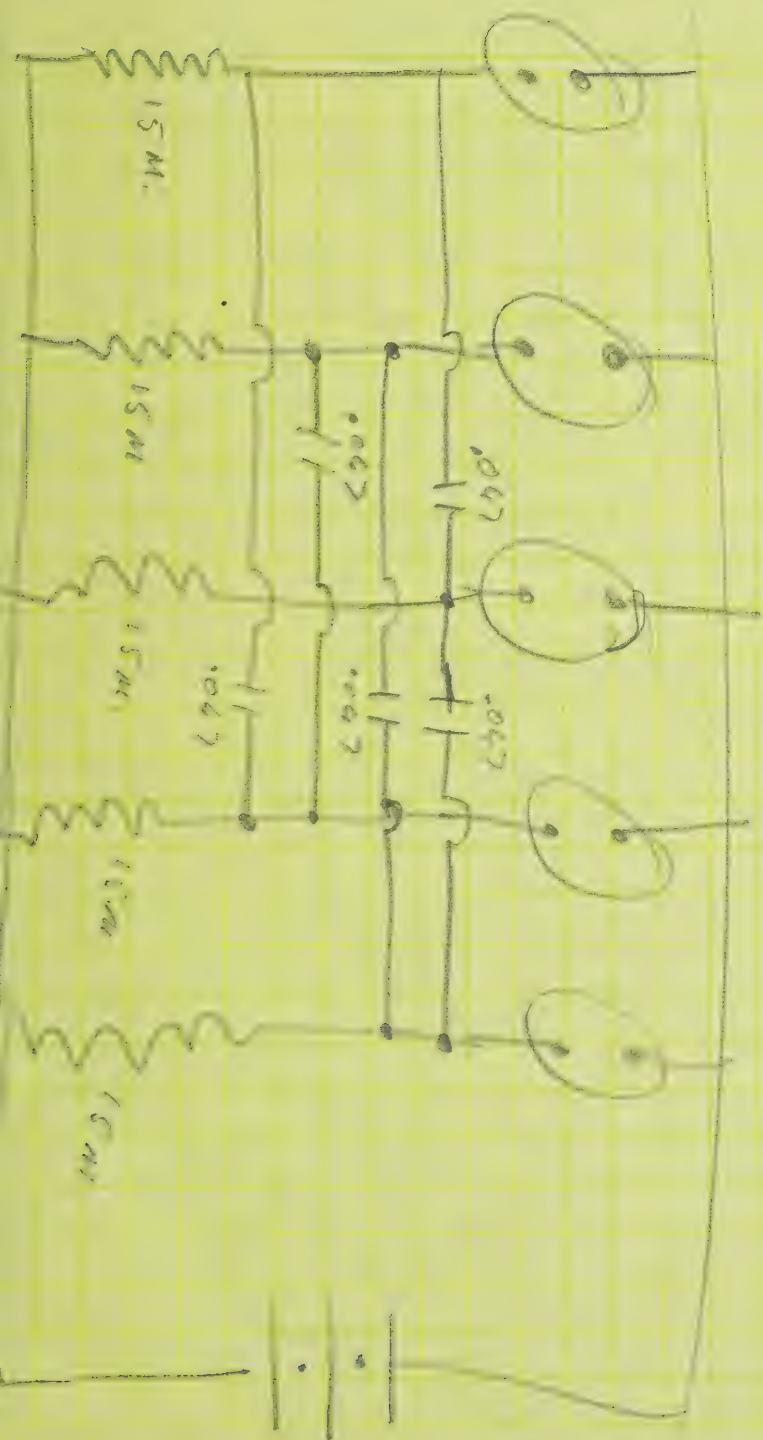
Find Z

Solve for parallel

$$Z = \sqrt{R^2 + X^2} = 7.2\Omega$$









35

PC 4426

CCC

NO 1200

1200

1200

20V - 27.58V - 3.72mA - 20.82V - 10.7mA  
 115V - 35.40V - 5.58mA - 25.51V - 14.8mA  
 140V - 43.08V - 12.47mA - 31.60V - 21.1mA

TW-15-1516 (1)

90V - 29.46 - .50mA - 17.25V - 8.64mA  
 115V - 37.73 - .72mA - 23.44V - 9.24mA  
 140V - 45.90 - 3.30mA - 28.28V - 12.03mA

TW-15-1516 (2)

10 - 29.10V - .73mA - 17.76V - 8.74mA  
 115 - 37.25V - 1.33mA - 23.10V - 9.23mA  
 140 - 45.32V - 3.68mA - 28.35V - 12.22mA

TW-15-1516 (163)

10 - 29.30V - 1.31mA - 19.39V - 8.62mA  
 115 - 37.48V - 2.31mA - 25.00V - 11.62mA  
 140 - 45.53V - 7.11mA - 30.58V - 18.13mA

101535

POSSIBLE ERROR - J - TO 104415

SUBSTITUTION



101733

(two power)

$$\begin{aligned}
 R12 &= 92V = 2.8V - \\
 820\Omega &115V = 7.2V - \\
 &138V = 13V - \\
 &160V = 18V -
 \end{aligned}$$

$$\begin{aligned}
 R11 &= 92 = 1.35V \\
 &115 = 1.7V \\
 100\Omega &138 = 2.6 \\
 &160 = 3.2V
 \end{aligned}$$

$$\begin{aligned}
 Q1 &= 92 = 3.2V \\
 &115 = 7.2V \\
 &138 = 13.5V \\
 &160 = 17.5V
 \end{aligned}$$

$$CB = 160V = 4.5V$$

$$Q4 = 160V = 13V$$

$$\begin{aligned}
 Q2-col &= 115 = 25 \\
 &138 = 30.5 \\
 &160 = 36 \\
 &92 = 20V
 \end{aligned}$$

$$\begin{aligned}
 &45A.P \\
 D.C &- 54A.P \\
 &- 60A.P \\
 &- 36A.P
 \end{aligned}$$

CUT OFF REG = 81  
 ZENER = 23V

$$\begin{aligned}
 R12 &160V = 18V = 22MA = .395W \\
 &138V = 13V = 15.8MA = .262W \\
 &115V = 9.2V = 10MA = .092W
 \end{aligned}$$

$$\begin{aligned}
 ZENER &.500W \\
 &.300W \\
 &CHARGE TO 14749(2)
 \end{aligned}$$

$$\begin{aligned}
 R11 &160V = 3.2V = 34MA = .090W \\
 &138V = 2.6V = 26MA = .067W \\
 &115V = 1.7V = 18MA = .031W
 \end{aligned}$$

NO DRIVE  
 CURRENT

$$\begin{aligned}
 Q1 &= 160 = 17.5V / 8MA = .148W \quad \text{NO DRIVE CURR.} \\
 &138 = 13.5V / 9.2MA = .124W \\
 &115 = 9.2V / 8MA = .074W
 \end{aligned}$$

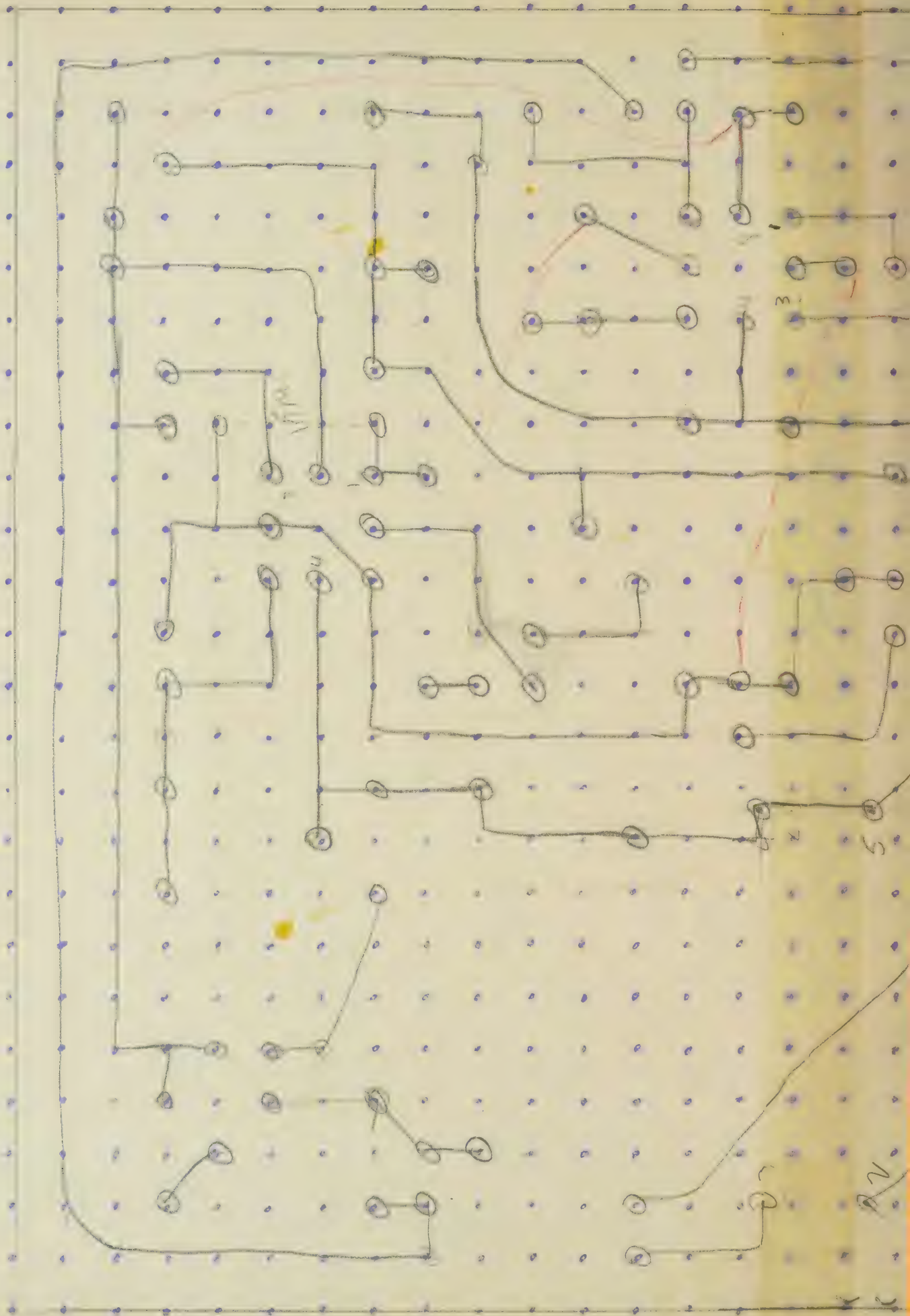
AC INPUT CURRENT A & TO 71			
92V	-	8.5MA	-
115	-	12.1MA	-
138	-	18.6MA	-
160	-	27.8MA	-

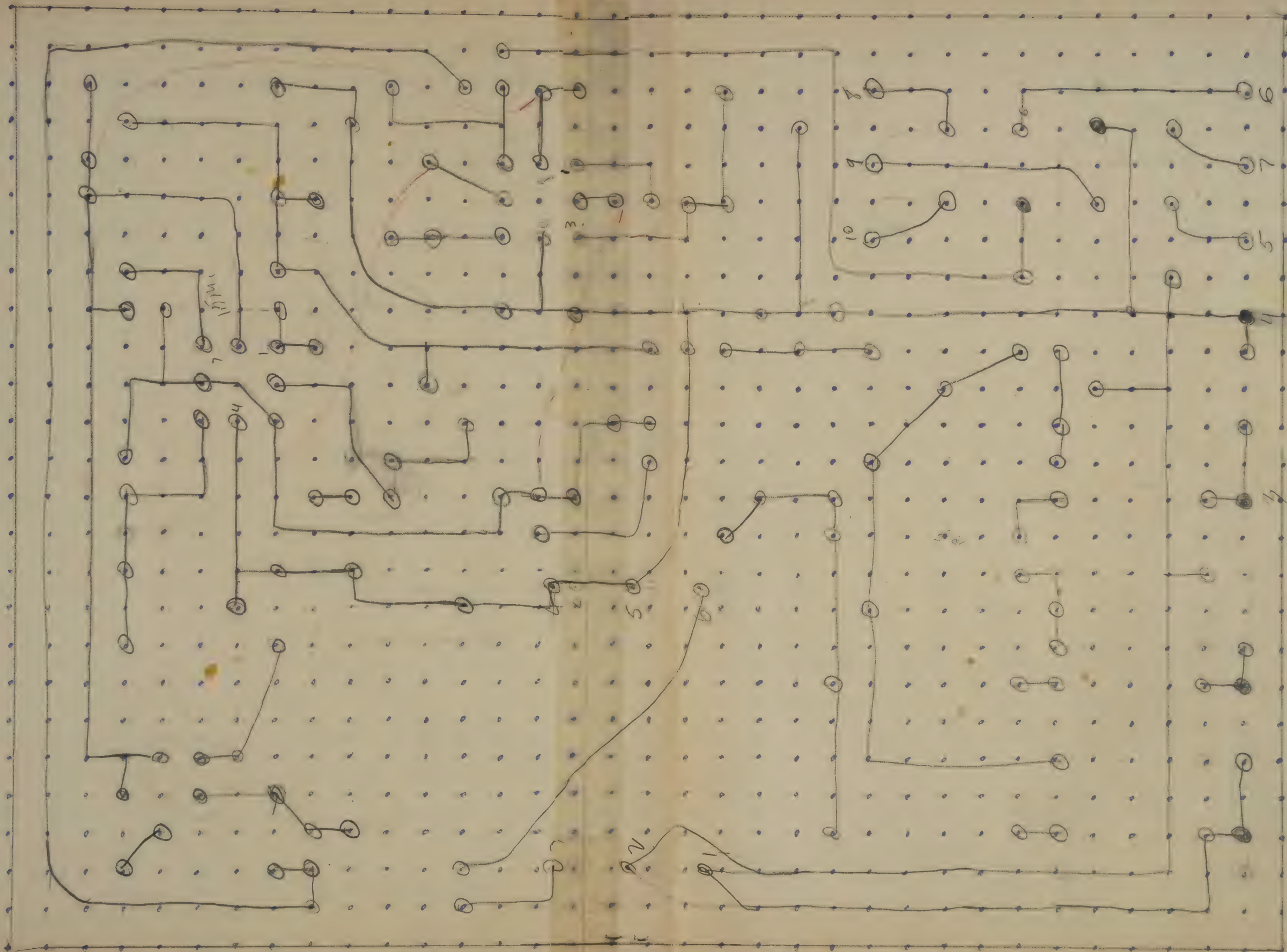




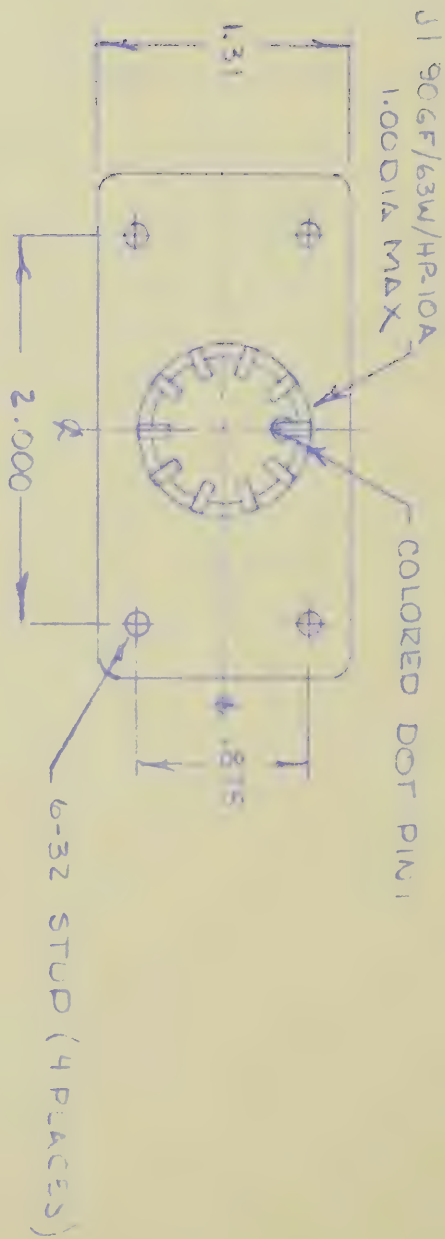












FINISH ASSEMBLY

**Pariko**  
ELECTRONICS COMPANY INC., SANTA ANA, CALIF.

ASSEMBLY -

SENSING RELAY

CODE IDENT NO.

13979

SIZE

C

REV

1

DO NOT SCALE DRAWING

MACH SURF

✓

DIMENSIONS ARE IN INCHES AND AFTER PLATING TOLERANCES (unless otherwise specified)

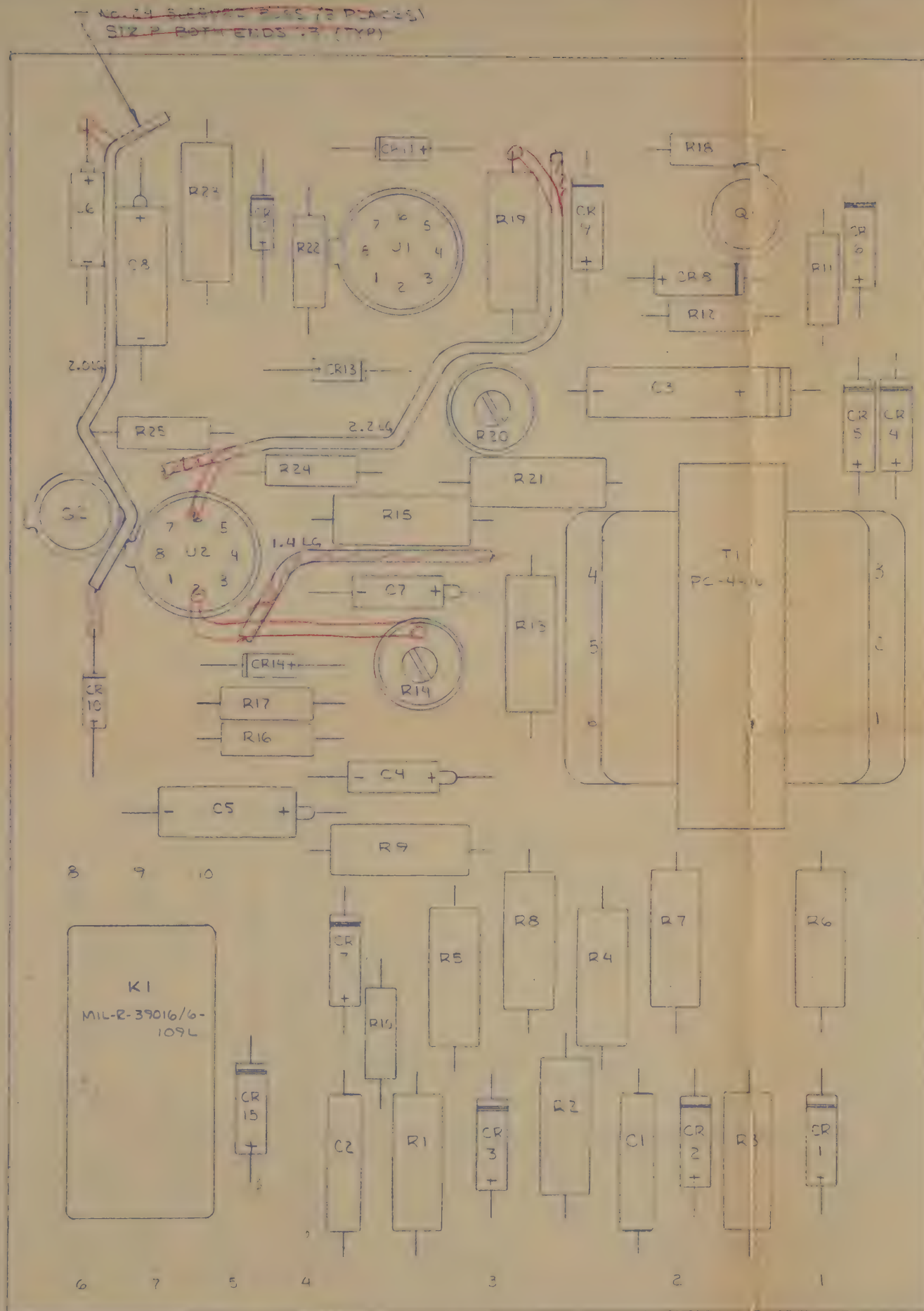
.X ±.1

.XX ±.03

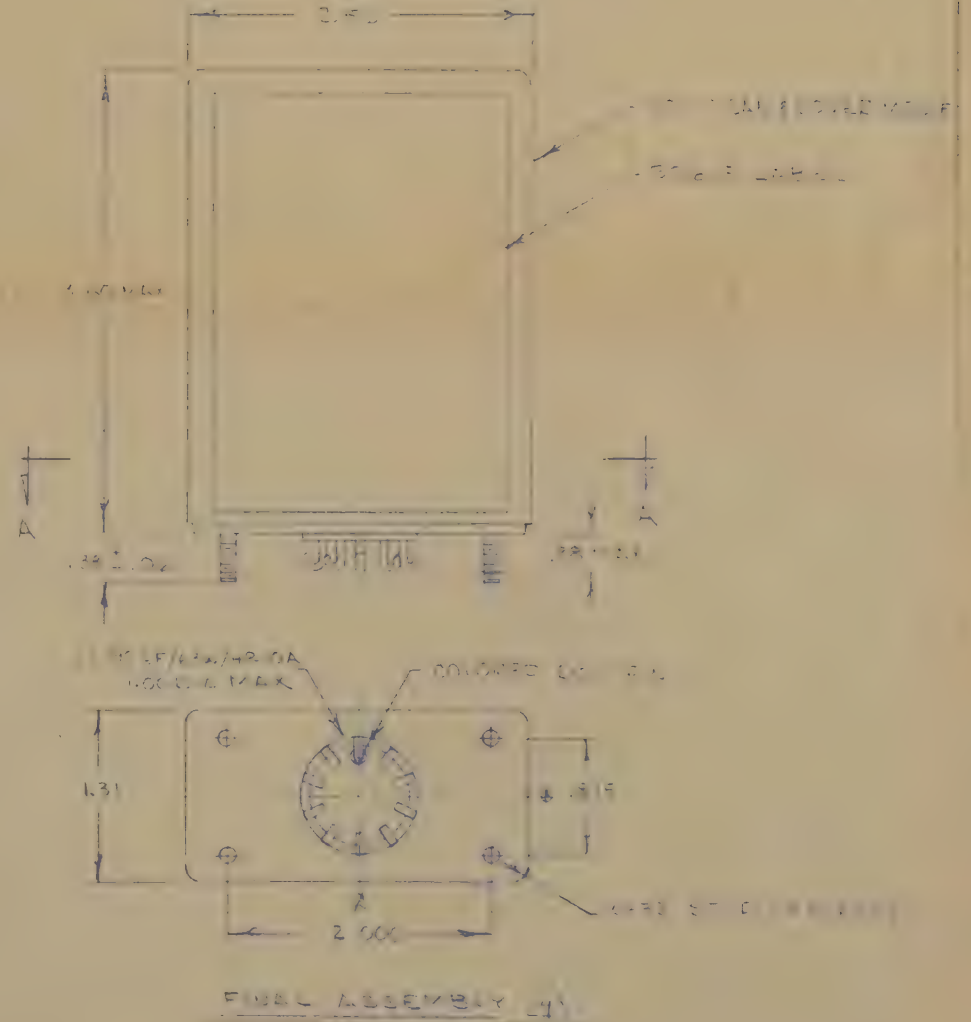
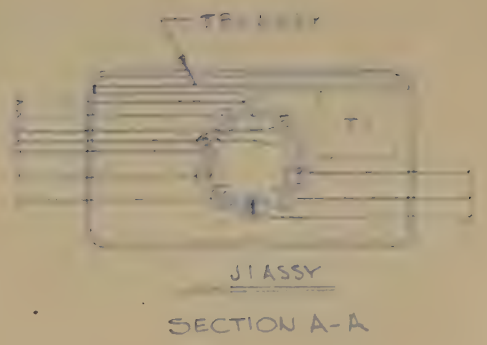
.XXX ±.010 ANGLES ±0.5°

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101537-98  
101537-99  
101537-100

REF.	VALUE
C1	100K/1W
C2	100K/1W
C3	100K/1W
C4	100K/1W
C5	100K/1W
C6	100K/1W
C7	100K/1W
C8	100K/1W
C9	100K/1W
C10	100K/1W
C11	100K/1W
C12	100K/1W
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C93	100K/1W
C94	100K/1W
C95	100K/1W
C96	100K/1W
C97	100K/1W
C98	100K/1W
C99	100K/1W
C100	100K/1W



FROM	TO	COLOR	LENGTH
1	2	RED	1.0
2	3	RED	1.0
3	4	RED	1.0
4	5	RED	1.0
5	6	RED	1.0
6	7	RED	1.0
7	8	RED	1.0
8	9	RED	1.0
9	10	RED	1.0
10	11	RED	1.0



R12	1.5M/1W
R23	3.3K/1W
R24	100K/1W
R25	100K/1W

4. PARTS LIST: 250138A  
 SCHEMATIC: 100138A  
 PARTS LIST: 100138A  
 TOP DRAWING: 100138A

DIMENSIONS ARE IN INCHES AND AFTER PLATING  TOLERANCES (unless otherwise specified) .X ±.1 .XX ±.03 .XXX ±.010 ANGLES ±0.5°  MACH SURF ✓	DR: [Signature] CHK: [Signature] DSGN: [Signature] PROJ: [Signature] REL: [Signature]	<b>Parko</b> ELECTRONICS COMPANY INC., SANTA ANA, CALIF.	
	APPROVED _____ APPROVED _____ DO NOT SCALE DRAWING		CODE IDENT NO. <b>13979</b> SIZE <b>100138A</b> SHEET 1 OF 1
	ASSEMBLY - SENSING RELAY		REV
	SCALE 1:1		





## PARTS LIST & TRACEABILITY RECORD

DATE January 23 PARKO P/N 101535 CUSTOMER P/N 719225 SHOP ORDER NO. 719225

CUSTOMER & P.O. NO.                      QTY                      S/N                      THRU                     

REF. DES.	P/N	DESCRIPTION	QTY PER UNIT	TOTAL QTY	INSP	MANUFACTURER	PARKO P.O. NO.	LOT
01	101535	2000 00 000				NOT SIZ	500	
02	101535	2000 00 000				MANUFACT	500	
03	101535	2000 00 000					500	
04	101535	2000 00 000					500	
05	101535	2000 00 000					500	
06	101535	2000 00 000					500	
07	101535	2000 00 000					500	
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100	101535	2000 00 000					500	





DATE January 14, 73 PARKO P/N 101535 CUSTOMER P/N 719728-1 SHOP ORDER NO.           

CUSTOMER & P.O. NO.            QTY            S/N            THRU           

REF. DES.	P/N	DESCRIPTION	QTY PER UNIT	TOTAL QTY	INSP	MANUFACTURER	PARKO P.O. NO.	LOT
01	MC1555G	200L OP AMP				MOT. INC	825	
02	MC1555G	OPAMP				CHRYSLER	825	
03	2N4338A	XTOP					60	
04	2N4338A	XTOP					60	
05	1N4005	DIODE					135	
06	1N4005	DIODE					135	
07	1N4005	DIODE					135	
08	1N4005	DIODE					135	
09	1N4002	DIODE					33	
10	1N4002	DIODE					33	
11	1N4002	DIODE					33	
12	1N4002	DIODE					33	
13	1N4002	DIODE					33	
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## PARTS LIST & TRACEABILITY RECORD

DATE

PARKO P/N

CUSTOMER P/N

SHOP ORDER NO.

CUSTOMER & P.O. NO.

QTY

S/N

THRU

REF. DES.	P/N	DESCRIPTION	QTY PER UNIT	TOTAL QTY	INSP	MANUFACTURER	PARKO P.O. NO.	LOT
C1	242E103	.01/600V001	533-2110			14212 PPS	.89	
C2	242E103	.01/600V002	416-144			14212 PPS	.89	
C3	64F910	300V/120V				CEE STK	2.25	
C4	CS13	2.2V/20V					.85	
C5	CS13	6.8V/35V					.85	
C6	CS13	100V/35V					.85	
C7	CS13	2.2V/20V					.85	
C8	CS13	6.8V/35V					.85	
R1	R1160	75H					.33	
R2	R1160	23.2H					.33	
R3	R1160	464H					.33	
R4	R1160	464H					.33	
R5	R1160	464H					.33	
R6	R1160	100H					.33	
R7	R1160	100H					.33	
R8	R1160	100H					.33	
R9	R1160	12.1H					.33	
R10	R207	47H					.33	



**PARTS LIST & TRACEABILITY RECORD**

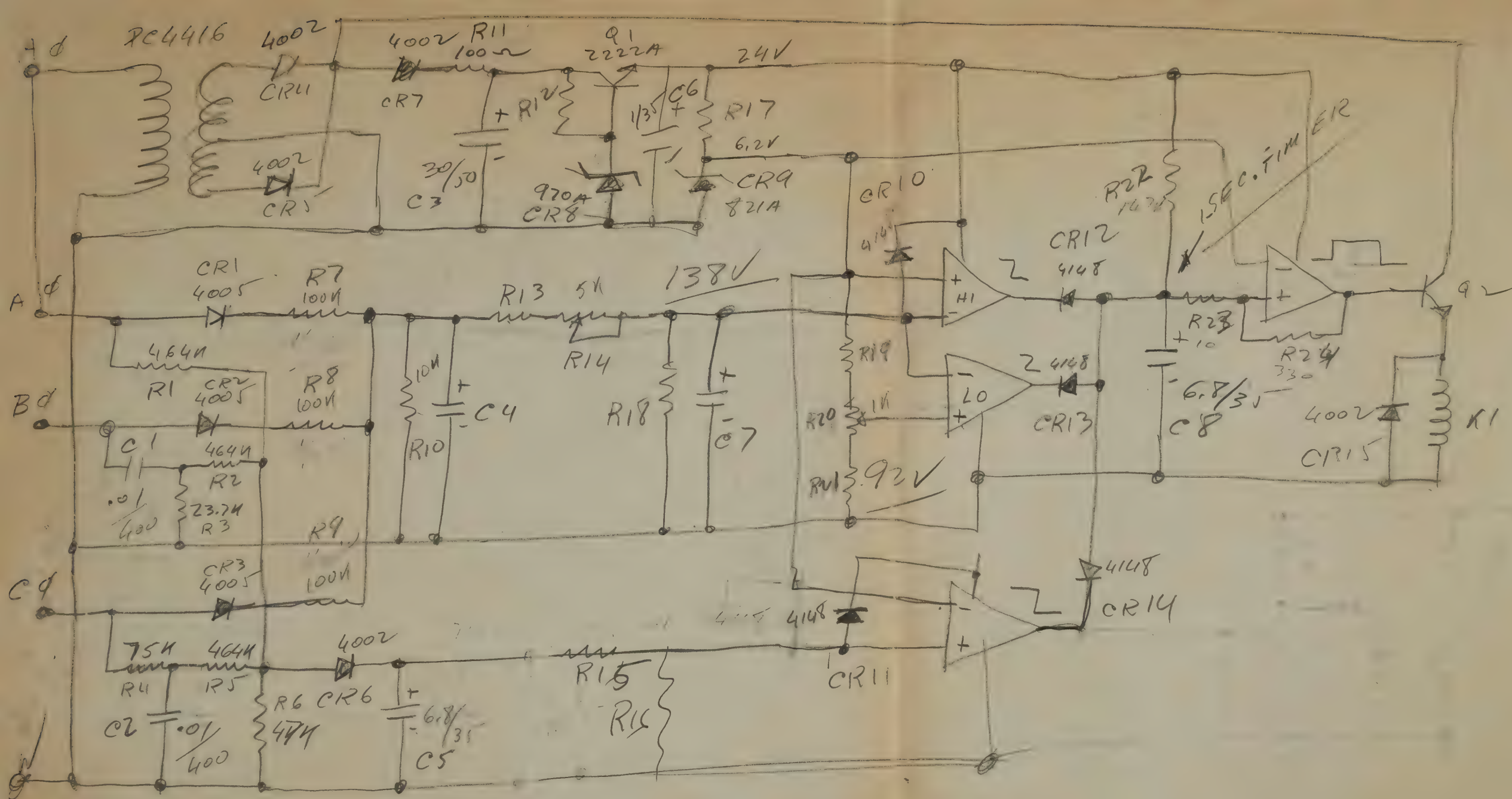
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CUSTOMER & P.O. NO. \_\_\_\_\_ QTY \_\_\_\_\_ S/N \_\_\_\_\_ THRU \_\_\_\_\_

REF. DES.	P/N	DESCRIPTION	QTY PER UNIT	TOTAL QTY	INSP	MANUFACTURER	PARKO P.O. NO.	LOT
R11	R207	100 N					110	
R12	R207	820 N					110	
R13	R160	5.6 24					155	
R14	3324-M-1-5324	54 POT				13004PMS	175	
R15	R160	8.2 25 N					110	
R16	R207	10 N					110	
R17	R207	100 N					110	
R18	R207	2.7 N					155	
R19	R160	1.4 74					155	
R20	3324-M-1-1024	14 POT				13004PMS	175	
R21	R160	4.2 24					155	
R22	R160	348 N					155	
R23	R207	10 N					110	
R24	R207	330 N					110	
R1	M16-R-39016/6-1094							
I1	PC 4416	1.5 24				MICROTECH	600	
CP-1	140-6205	1.3 X2.5 X						
R2000	906F-63W	HP-104						







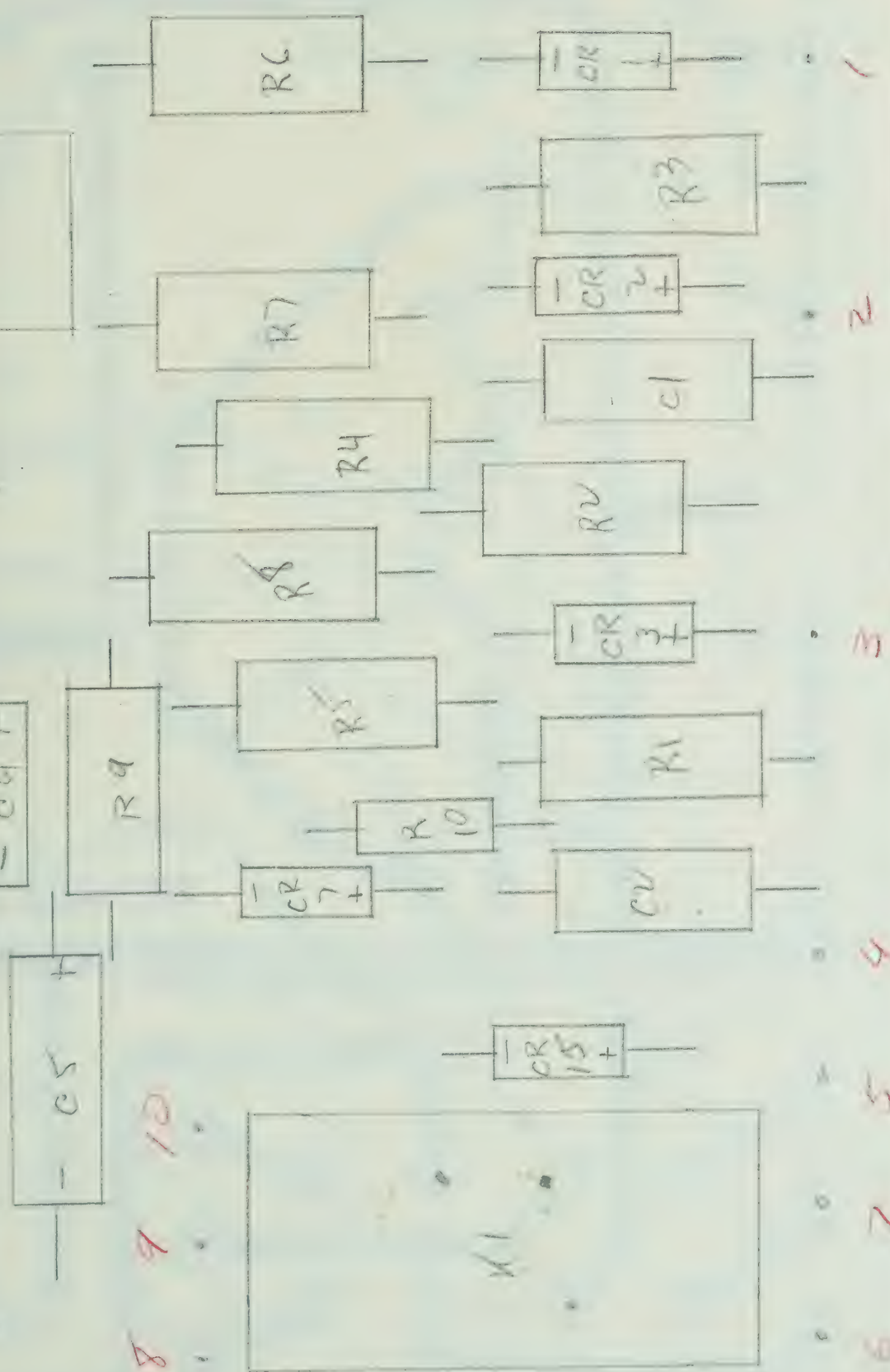
T1  
 115 = 28  
 92 = 22.4  
 160 = 34

101535

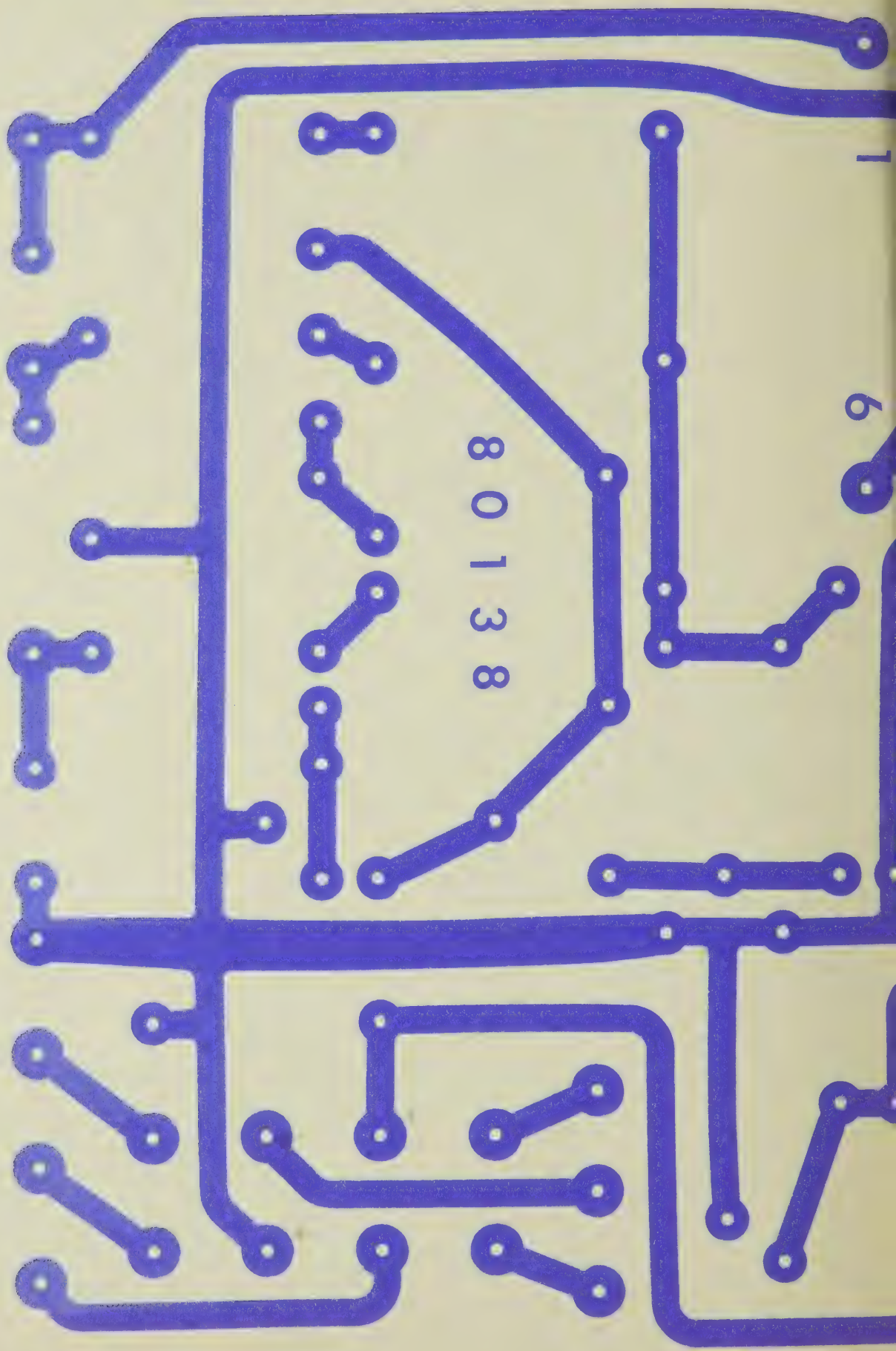
3/15/77







Handwritten signature or initials in the top right corner.

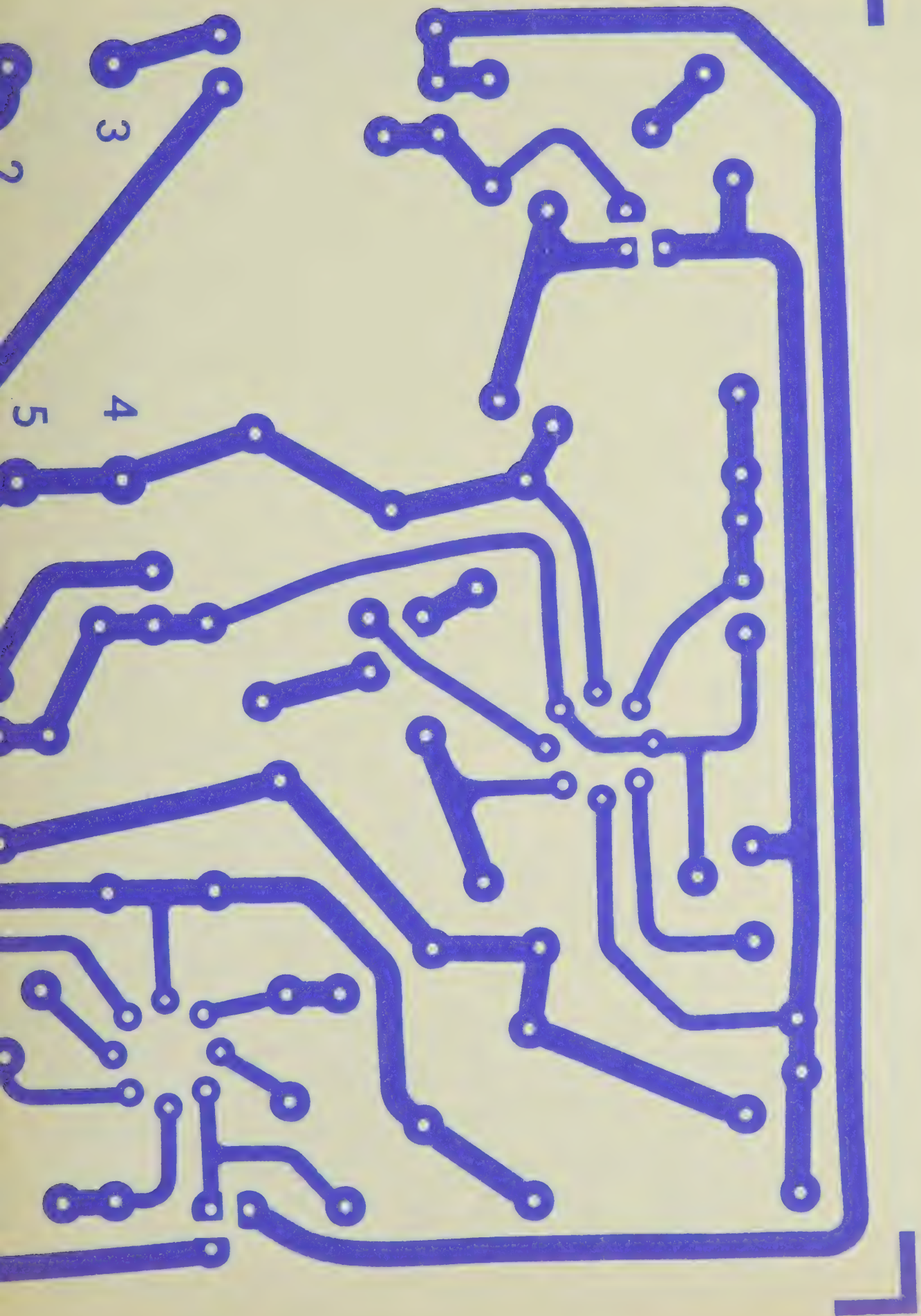


8 0 1 3 8

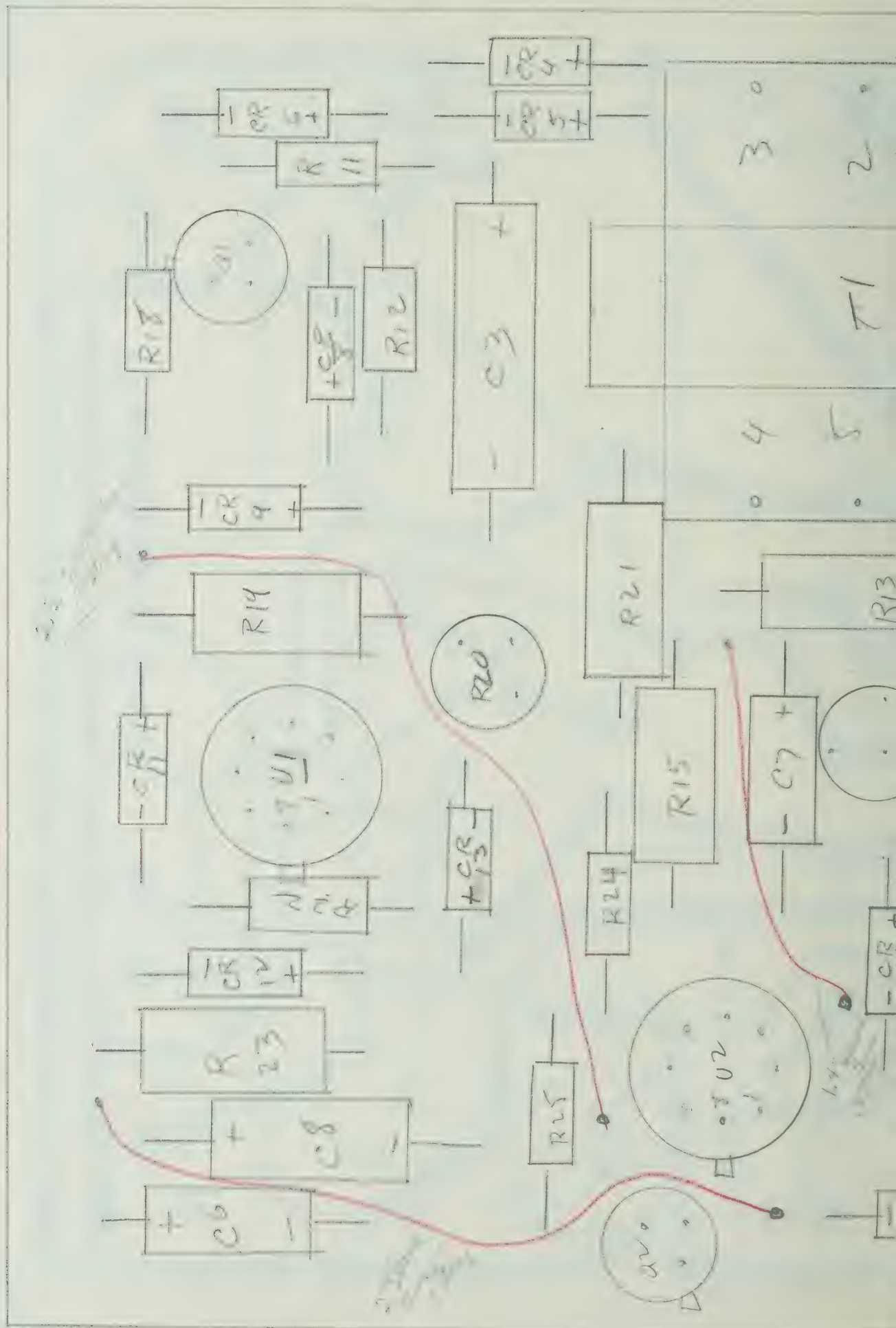
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9





101535









# Parko

ELECTRONICS CO. INC.  
SANTA ANA, CALIFORNIA

## PARTS LIST & TRACEABILITY RECORD

DATE

CUSTOMER C.P.D. M.

PARKO P/N 101535

CUSTOMER P/N

719728-1

SHOP ORDP. NO.

QTY

10

P/N

THRU

REF. DES.	P/N	DESCRIPTION	QTY UNIT	TOTAL QTY	UNIT QTY	UNIT QTY	MANUFACTURER	PARKO P.O. NO.	LOT
	28112	Can & Cover Modif	1						
TB1	60110	Res. Board	1						
	90211	Lead	1						
	90GF/63W-HP-10A	Header	1						
	ES111-1	Semi Rigid Potting Compound	85000				Elec Ind		
	ZA2E103	Capacitor .01uf/400V	2						
	33P10	Capacitor 30uf/50V	1						
	2413	Capacitor 2.2uf/20V	2						
C5, C8	C513	Capacitor 6.8uf/35V	3						
	C413	Capacitor 10uf/50V	1						
CR1, CR2, CR3	1N4005	Diode	3						
CR4, CR5, CR6	1N4005	Diode	3						
	1N4005	Diode	3						
	1N4005	Diode	3						
CR9	1N821A	Diode, zener	1						





**Parko**

ELECTRONICS CO. INC.  
SANTA ANA, CALIFORNIA

**PARTS LIST & TRACEABILITY RECORD**

DATE:                      PARKO P/N:                      CUSTOMER P/N:                      PARTS LIST:                      ORDER NO.:                     

CUSTOMER & P.O. NO.                      QTY                      S/N                      THRU                     

REF. DES.	P/N	DESCRIPTION	QTY PER UNIT	TOTAL QTY	UNIT	MANUFACTURER	PARKO P/N
R1	RN100	RELAY	1	1			
R2	RN200	RELAY	1	1			
R3, R4, R5	RN300	RESISTOR 4K4K	3	3			
R6	RN600	RESISTOR 12.1K	1	1			
R7	RN700	RESISTOR 8.25K	1	1			
R8	RN800	RESISTOR 1.47K	1	1			
R9	RN900	RESISTOR 1.47K	1	1			
R10	RN1000	RESISTOR 1.47K	1	1			
R11	RN1100	RESISTOR 1.47K	1	1			
R12	RN1200	RESISTOR 1.47K	1	1			
R13	RN1300	RESISTOR 1.47K	1	1			
R14	RN1400	RESISTOR 1.47K	1	1			
R15	RN1500	RESISTOR 1.47K	1	1			
R16	RN1600	RESISTOR 1.47K	1	1			
R17	RN1700	RESISTOR 1.47K	1	1			
R18	RN1800	RESISTOR 1.47K	1	1			
R19	RN1900	RESISTOR 1.47K	1	1			
R20	RN2000	RESISTOR 1.47K	1	1			
R21	RN2100	RESISTOR 1.47K	1	1			
R22	RN2200	RESISTOR 1.47K	1	1			
R23	RN2300	RESISTOR 1.47K	1	1			
R24	RN2400	RESISTOR 1.47K	1	1			
R25	RN2500	RESISTOR 1.47K	1	1			
R26	RN2600	RESISTOR 1.47K	1	1			
R27	RN2700	RESISTOR 1.47K	1	1			
R28	RN2800	RESISTOR 1.47K	1	1			
R29	RN2900	RESISTOR 1.47K	1	1			
R30	RN3000	RESISTOR 1.47K	1	1			
R31	RN3100	RESISTOR 1.47K	1	1			
R32	RN3200	RESISTOR 1.47K	1	1			
R33	RN3300	RESISTOR 1.47K	1	1			
R34	RN3400	RESISTOR 1.47K	1	1			
R35	RN3500	RESISTOR 1.47K	1	1			
R36	RN3600	RESISTOR 1.47K	1	1			
R37	RN3700	RESISTOR 1.47K	1	1			
R38	RN3800	RESISTOR 1.47K	1	1			
R39	RN3900	RESISTOR 1.47K	1	1			
R40	RN4000	RESISTOR 1.47K	1	1			
R41	RN4100	RESISTOR 1.47K	1	1			
R42	RN4200	RESISTOR 1.47K	1	1			
R43	RN4300	RESISTOR 1.47K	1	1			
R44	RN4400	RESISTOR 1.47K	1	1			
R45	RN4500	RESISTOR 1.47K	1	1			
R46	RN4600	RESISTOR 1.47K	1	1			
R47	RN4700	RESISTOR 1.47K	1	1			
R48	RN4800	RESISTOR 1.47K	1	1			
R49	RN4900	RESISTOR 1.47K	1	1			
R50	RN5000	RESISTOR 1.47K	1	1			
R51	RN5100	RESISTOR 1.47K	1	1			
R52	RN5200	RESISTOR 1.47K	1	1			
R53	RN5300	RESISTOR 1.47K	1	1			
R54	RN5400	RESISTOR 1.47K	1	1			
R55	RN5500	RESISTOR 1.47K	1	1			
R56	RN5600	RESISTOR 1.47K	1	1			
R57	RN5700	RESISTOR 1.47K	1	1			
R58	RN5800	RESISTOR 1.47K	1	1			
R59	RN5900	RESISTOR 1.47K	1	1			
R60	RN6000	RESISTOR 1.47K	1	1			
R61	RN6100	RESISTOR 1.47K	1	1			
R62	RN6200	RESISTOR 1.47K	1	1			
R63	RN6300	RESISTOR 1.47K	1	1			
R64	RN6400	RESISTOR 1.47K	1	1			
R65	RN6500	RESISTOR 1.47K	1	1			
R66	RN6600	RESISTOR 1.47K	1	1			
R67	RN6700	RESISTOR 1.47K	1	1			
R68	RN6800	RESISTOR 1.47K	1	1			
R69	RN6900	RESISTOR 1.47K	1	1			
R70	RN7000	RESISTOR 1.47K	1	1			
R71	RN7100	RESISTOR 1.47K	1	1			
R72	RN7200	RESISTOR 1.47K	1	1			
R73	RN7300	RESISTOR 1.47K	1	1			
R74	RN7400	RESISTOR 1.47K	1	1			
R75	RN7500	RESISTOR 1.47K	1	1			
R76	RN7600	RESISTOR 1.47K	1	1			
R77	RN7700	RESISTOR 1.47K	1	1			
R78	RN7800	RESISTOR 1.47K	1	1			
R79	RN7900	RESISTOR 1.47K	1	1			
R80	RN8000	RESISTOR 1.47K	1	1			
R81	RN8100	RESISTOR 1.47K	1	1			
R82	RN8200	RESISTOR 1.47K	1	1			
R83	RN8300	RESISTOR 1.47K	1	1			
R84	RN8400	RESISTOR 1.47K	1	1			
R85	RN8500	RESISTOR 1.47K	1	1			
R86	RN8600	RESISTOR 1.47K	1	1			
R87	RN8700	RESISTOR 1.47K	1	1			
R88	RN8800	RESISTOR 1.47K	1	1			
R89	RN8900	RESISTOR 1.47K	1	1			
R90	RN9000	RESISTOR 1.47K	1	1			
R91	RN9100	RESISTOR 1.47K	1	1			
R92	RN9200	RESISTOR 1.47K	1	1			
R93	RN9300	RESISTOR 1.47K	1	1			
R94	RN9400	RESISTOR 1.47K	1	1			
R95	RN9500	RESISTOR 1.47K	1	1			
R96	RN9600	RESISTOR 1.47K	1	1			
R97	RN9700	RESISTOR 1.47K	1	1			
R98	RN9800	RESISTOR 1.47K	1	1			
R99	RN9900	RESISTOR 1.47K	1	1			
R100	RN10000	RESISTOR 1.47K	1	1			





ELECTRONICS CO. INC.  
8001 S. 10th St. - Suite 100  
Tulsa, Oklahoma 74116

DATE

PART NO. / REV.

QUANTITY

DATE

BY

CUSTOMER'S P.O. NO.

QTY

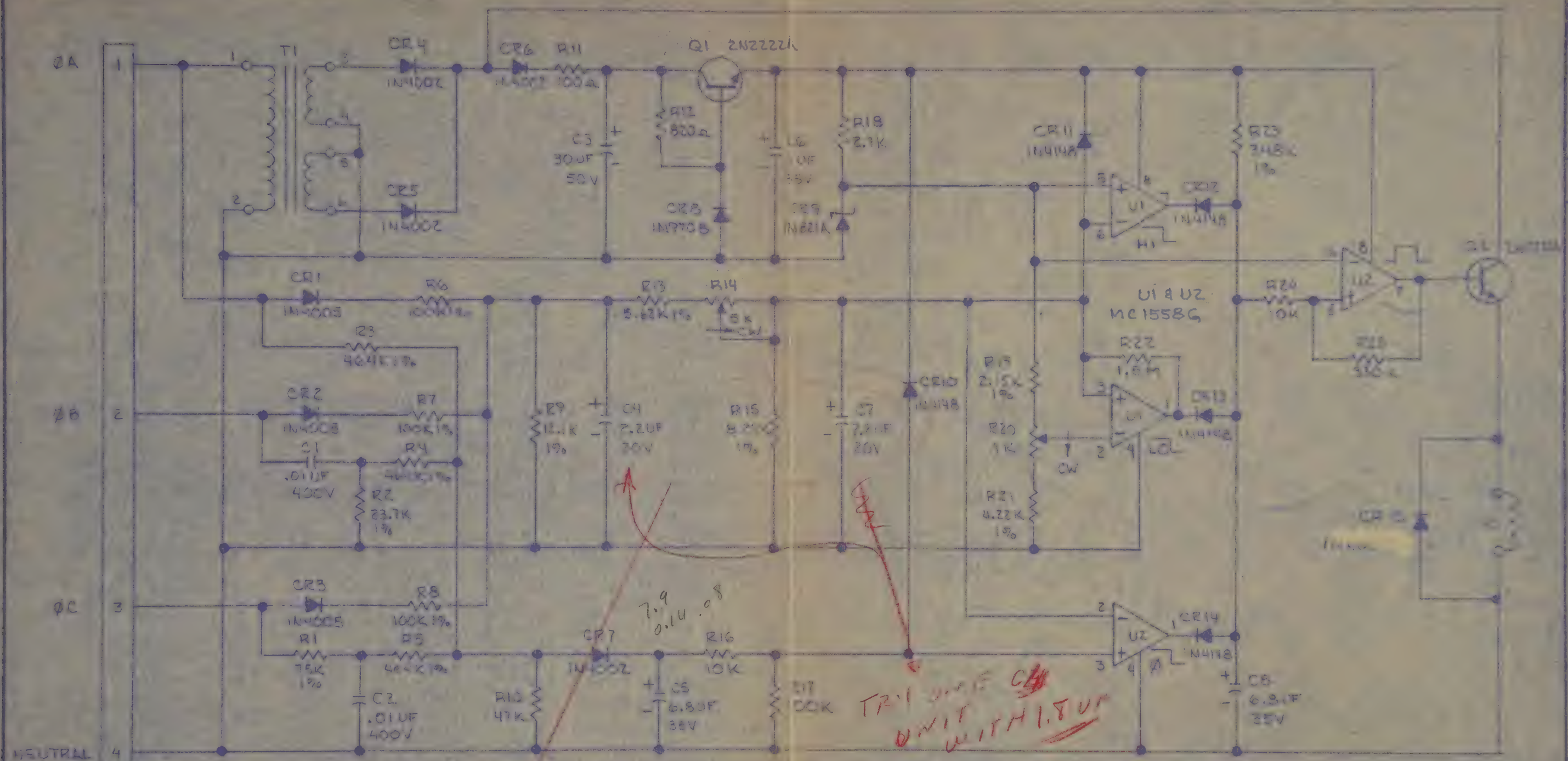
S/S

DATE

REF. DES.	P/N	DESCRIPTION	QTY	TOTAL	ISSUE	MANUFACTURER	DATE
R23	R2300	Resistor 343K	1			Continental	
R10	RC07	Resistor 47K	1				
R11	RC07	Resistor 120 ohm	1				
R12	RC07	Resistor 820 ohm	1				
R16, R24	RC07	Resistor 10K	2				
R17	RC07	Resistor 100K	1				
R18	RC07	Resistor 2.7K	1				
R22	RC07	Resistor 1.5M	1				
R25	RC07	Resistor 820K	1				
R14	330K-1-1-1- -100K	Milliammeter 5K	1			Bourns	
R20	330K-1-1-1- 100K	Potentiometer 1K	1			Bourns	



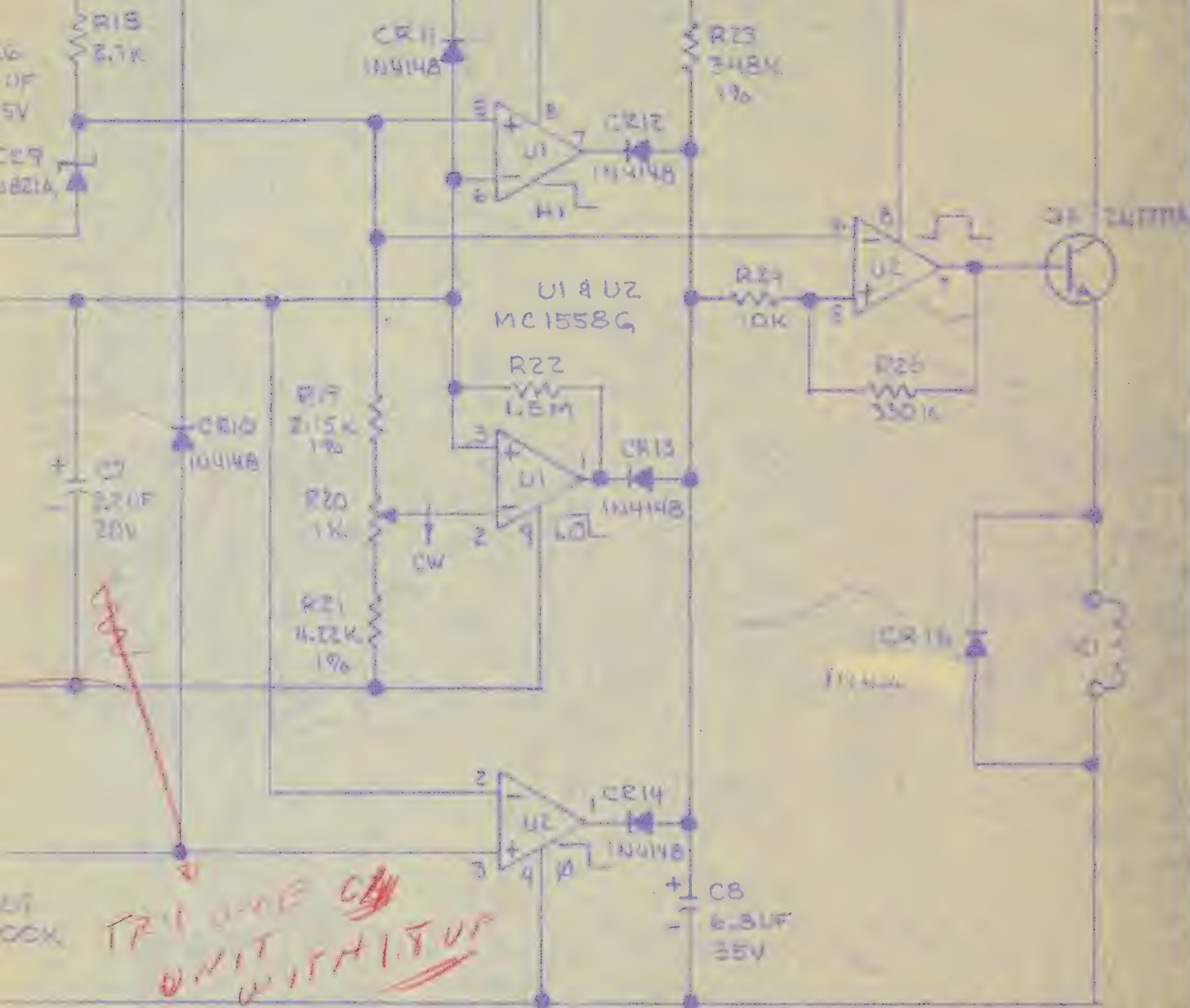




3 ASSEMBLY: 101537  
 2 PARTS LIST: PL101535  
 1 TOP DRAWING: 101535  
 NOTES

DIMENSIONS ARE IN INCHES AND AFTER PLATING		OR (Unit in lb.) 6.257		<b>Parko</b> ELECTRONICS COMPANY INC., SANTA ANA, CALIF.	
TOLERANCES (unless otherwise specified)		CHK'd 7-25-77			
X ±.1		DSGN		SCHEMATIC-SENSING RELAY-OVER-UNDER VOLTAGE PHASE	
XX ±.03		PROJ			
XXX ±.010		REL	7-25-77		
ANGLES ±.5°					
MACH SURF ✓		APPROVED		CODE IDENT NO	SIZE
		APPROVED		13979	B
		DO NOT SCALE DRAWING		SCALE	SHEET 1 OF 1

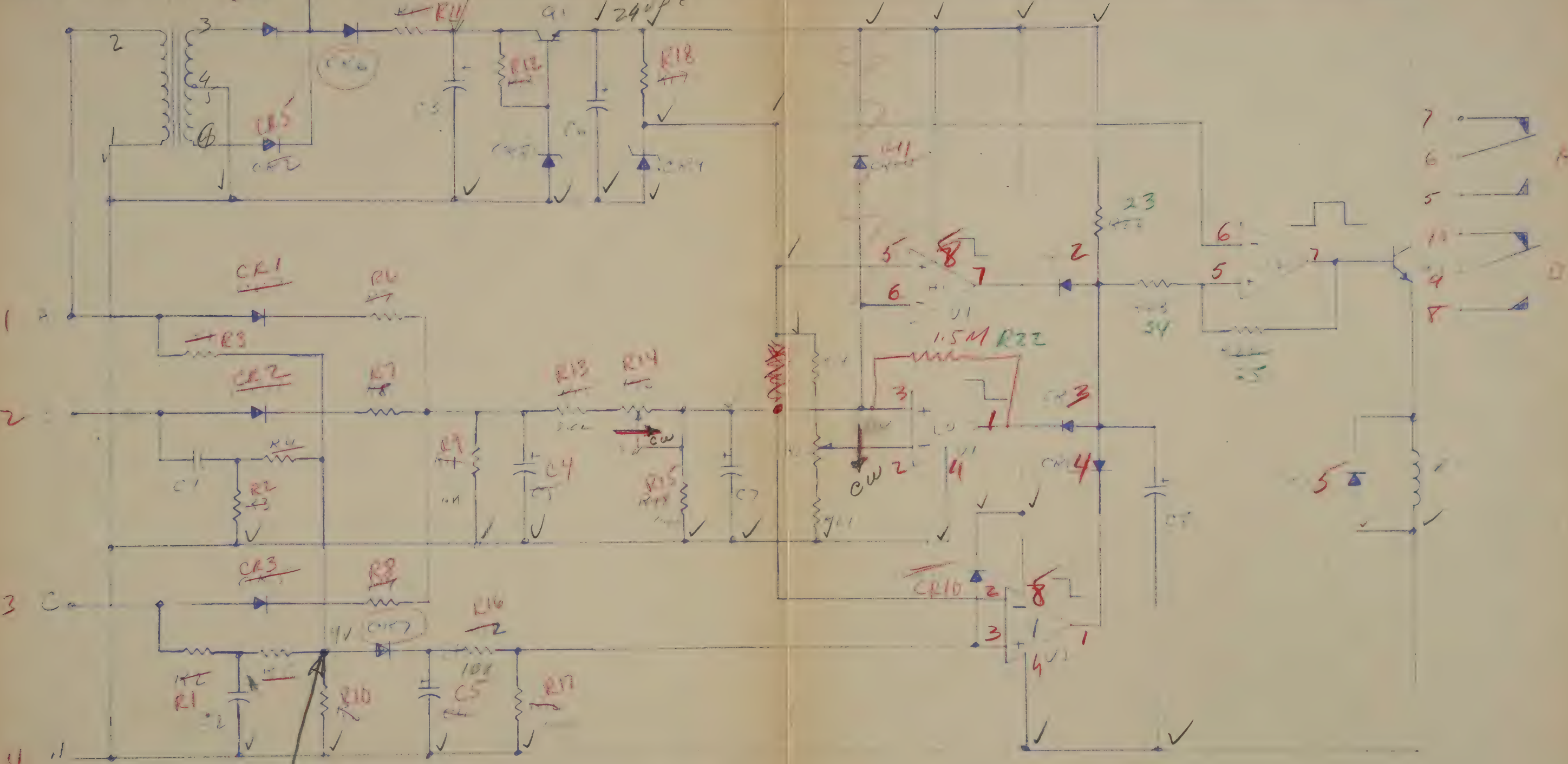




DIMENSIONS ARE IN INCHES AND AFTER PLATING  TOLERANCES (unless otherwise specified) .X ±.1 .XX ±.03 .XXX ±.010 ANGLES ±0.5° MACH SUUF ✓	DR <i>[Signature]</i> 6-3-77	<div style="text-align: center;"> <b>Parko</b>          ELECTRONICS COMPANY INC. SANTA ANA, CALIF.       </div> <div style="text-align: center;"> <b>SCHEMATIC- SENSING RELAY- OVER-UNDER VOLTAGE &amp; PHASE</b> </div>	
	CHKD <i>[Signature]</i> 7-25-77		
	DSGN		
	PROJ		
	REV <i>[Signature]</i> 7-28-77		
APPROVED	CODE IDENT NO. <b>13979</b>	SIZE <b>B</b>	SHEET 1 OF 1
APPROVED	SCALE		
DO NOT SCALE DRAWING			

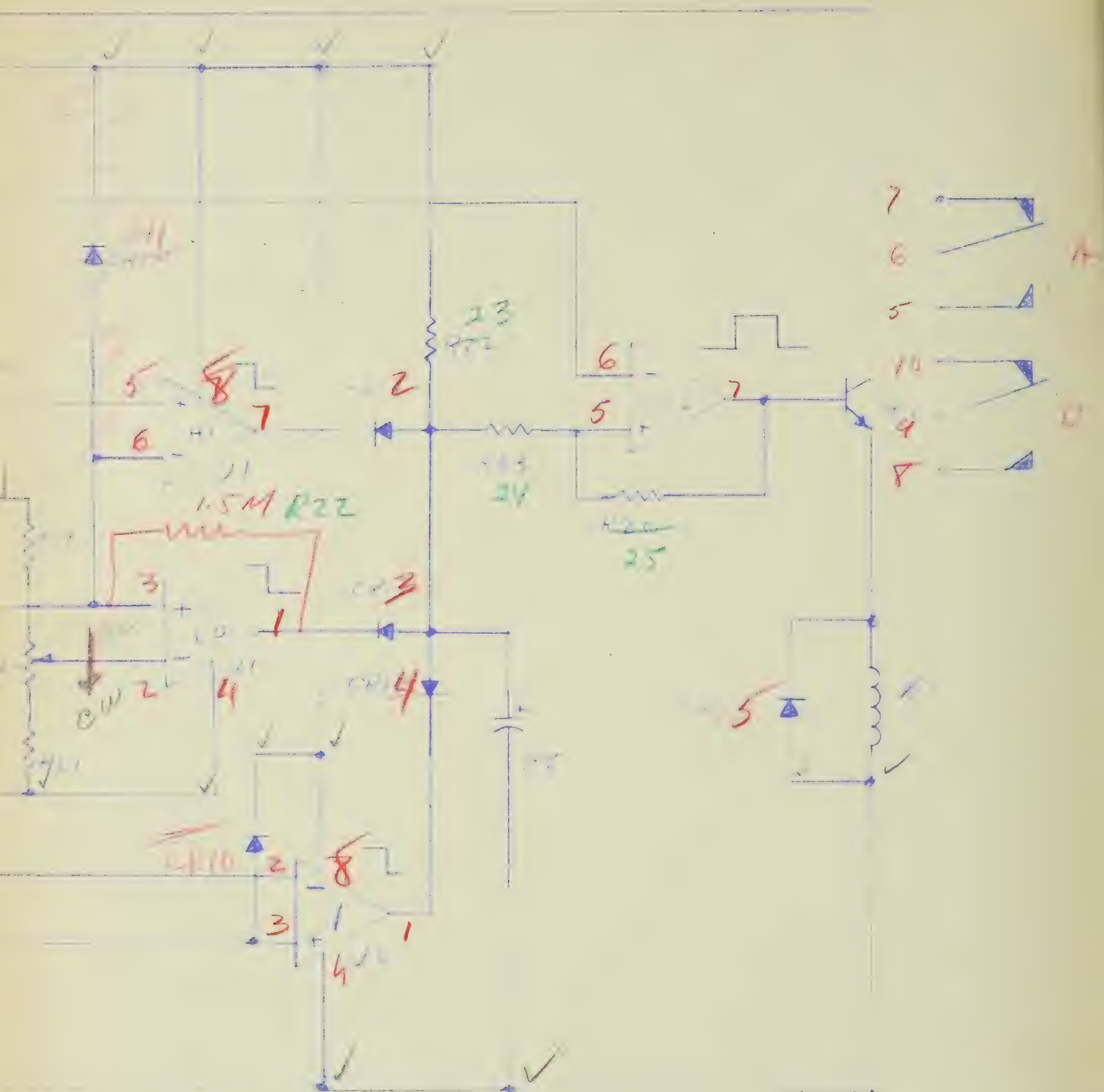


42-24.1 AC  
 115-30.8  
 138-38.8 -1  
 92-25.0  
 115-31.8  
 138-41 VDC  
 REGULATION DOWN TO 80V



138 = 14.5 VRMS  
 115 = 12.0 -  
 92 = 9.6  
 OUT OF - 0.5 VRMS

101535  
 10/1/11

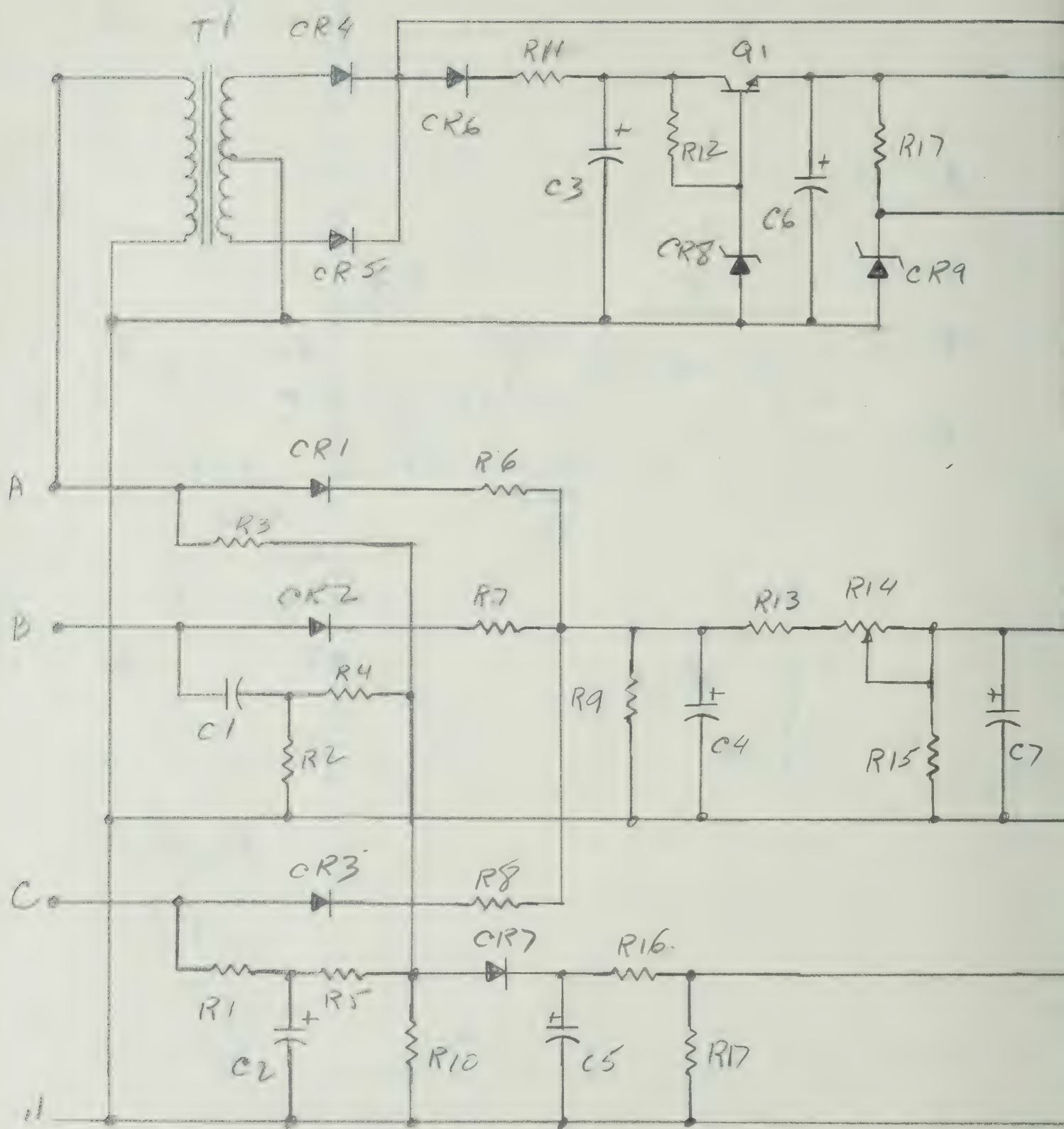


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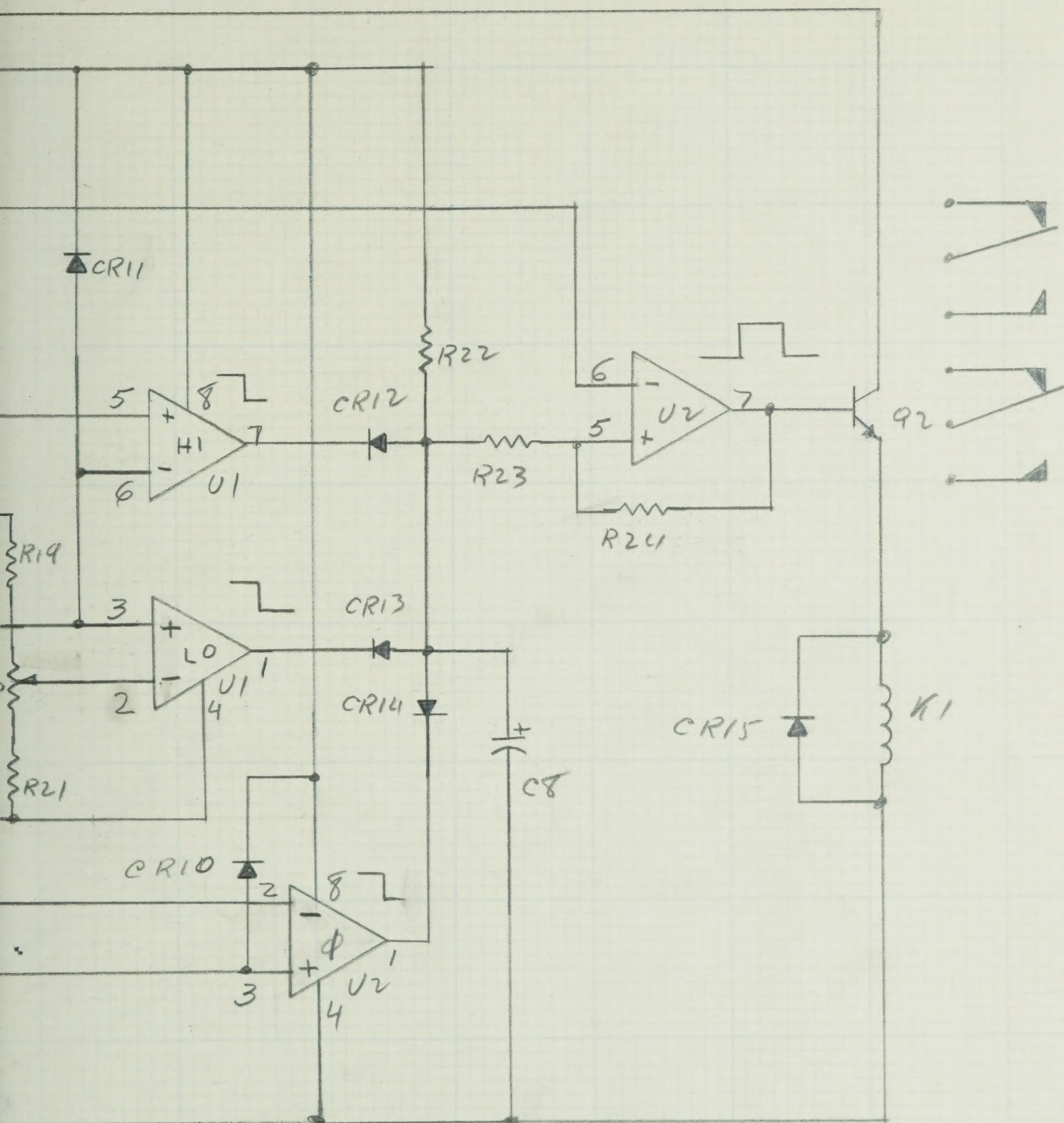
2/14/77









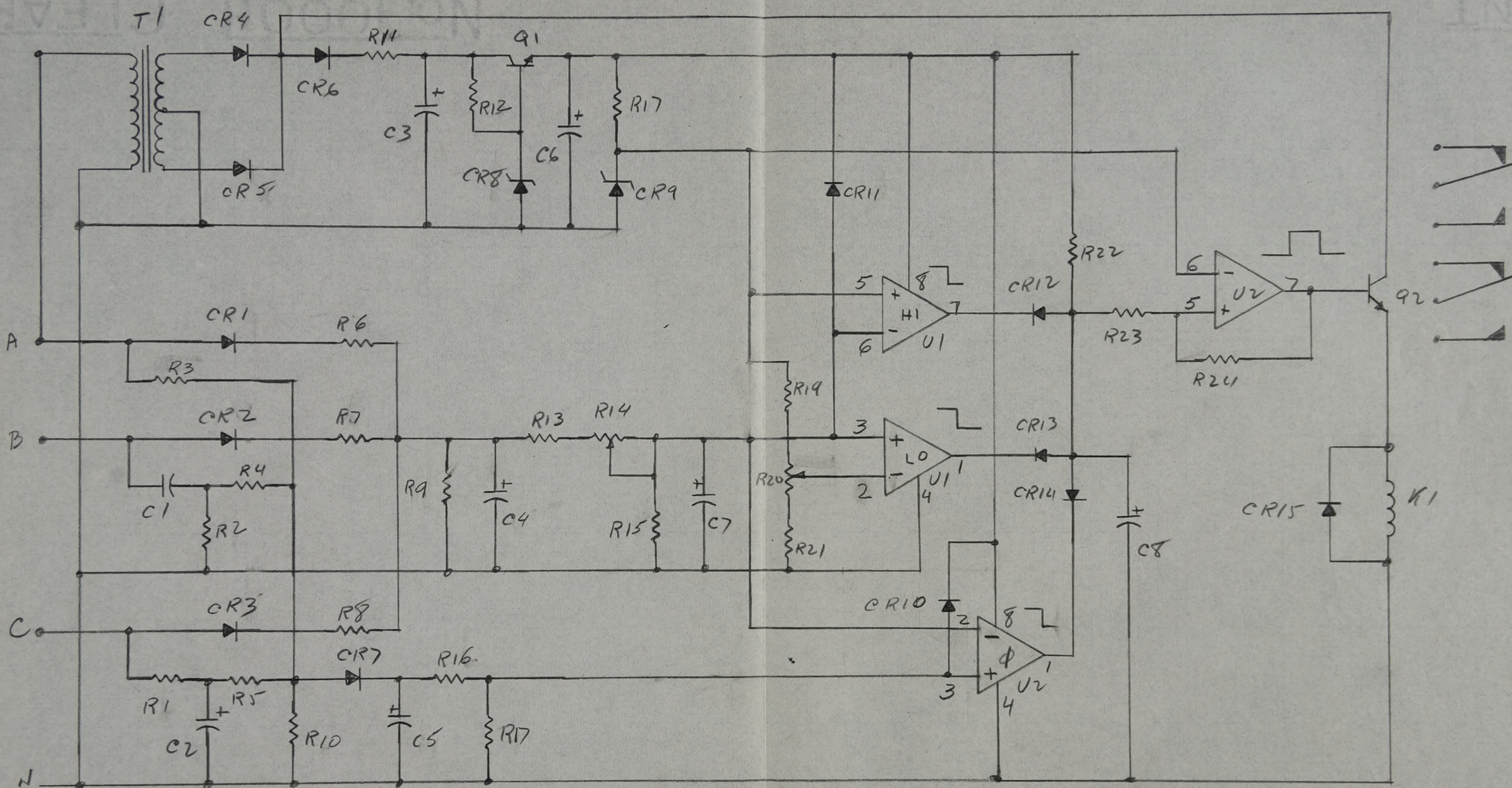


SENSING RELAY  
2V - UN -  $\phi$  -

101535

6/14/77





SENSING RELAY  
OV-UN-Φ-

101535

6/14/77





